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DEPARTMENT OF DEFENSE IN-HOUSE RDT&E ACTIVITIES



30 OCTOBER 1979

Management Analysis Report.

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DEPARTMENT OF DEFENSE IN-HOUSE RDT&E ACTIVITIES.

HAROLD F. DAVIDSON

Lanagement analysis rapty

30 October 1979

Prepared for:

US ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND 5001 Eisenhower Avenue Alexandria, Virginia 22333

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FOREWORD

THIS REPORT WAS PREPARED FOR THE US ARMY MATERIEL DEVELOPMENT AND READINESS COMMAND AT THE DIRECTION OF THE DEPUTY CHIEF OF STAFF FOR RESEARCH, DEVELOPMENT AND ACQUISITION. THIS EDITION IS THE THIRTEENTH OF A SERIES THAT WAS INITIATED IN 1966.

EACH IN-HOUSE RDT&E ACTIVITY OF THE DEPARTMENT OF DEFENSE IS DESCRIBED ON ONE PAGE IN THIS COMPILATION, THE DATA FOR 1979 ARE SUMMARIZED IN TABLES PRECEDING THE MAIN TEXT AND CHARTS AND TABLES ARE PROVIDED FOR EACH SERVICE SHOWING ORGANIZATIONAL RELATIONSHIPS AND COMMAND CHAINS.

ALL CURRENT DOD RDT&E ACTIVITIES WHICH MEET THE REPORT REQUIREMENT OF HAVING AT LEAST 25 PER CENT OF THEIR BUDGET IN RDT&E FUNDS ARE LISTED IN THE CONTENTS ALPHABETICALLY WITHIN EACH DEPARTMENT. SOME T&E FACILITIES WHICH DO NOT MEET THE REQUIREMENT PREVIOUSLY NOTED ARE ALSO LISTED BY SPECIAL REQUEST. ORGANIZATIONAL CHANGES DURING FY 1979 APPEAR IN APPENDIX T.

DOD INSTRUCTION 7700.9 WHICH HAS BEEN THE BASIS FOR PHIS REPORT SINCE ITS INCEPTION HAS BEEN REPLACED BY A TRI-SERVICE REGULATION, AR 70-63 NAVCOMPTIST 7044.5D, AFR 80-26, ENTITLED DOD IN-HOUSE RDTE ANNUAL ACTIVITIES REPORT, 1 NOVEMBER 1978. APPENDIX II CONTAINS MANY OF THE DEFINITIONS USED IN THIS REPORT AND ARE PROVIDED AS AN ADDITIONAL AID IN USE OF THE REPORT. APPENDIX III LISTS SELECTED ABBREVIATIONS AND ACRONYMS. APPENDIX IV LISTS SELECTED KEY WORDS WITH PAGE REFERENCES.

EVERY EFFORT HAS BEEN MADE TO PROVIDE ACCURATE INFORMATION, PARTICULARLY FISCAL DATA. ALL NUMBERS AND STATEMENTS HAVE BEEN THOROUGHLY EXAMINED AND IN ALMOST ALL CASES, REVIEWED WITH THE SUBMITTING AGENCY TO INSURE CORRECTNESS AND CLARITY.

THIS YEAR A NEW FEATURE HAS BEEN ADDED. THE ARMY RESEARCH OFFICE, THE OFFICE OF NAVAL RESEARCH AND THE AIR FORCE OFFICE OF SCIENTIFIC RESEARCH ARE SHOWN FOR THE FIRST TIME.

IT IS DESIRED THAT THIS PUBLICATION BE GIVEN WIDESPREAD DISTRIBUTION IN THE DOD LABORATORIES AS AN INTERNAL MANAGEMENT DOCUMENT AT THE DIRECTOR AND COMMANDING OFFICER LEVEL AS WELL AS AT THE BENCH LEVEL IN ORDER TO ALLOW PERSONNEL AN OPPORTUNITY TO FAMILIARIZE THEMSELVES WITH THE FUNCTIONAL CAPABILITIES OF OTHER DOD LABORATORIES. IT IS 1.0PED THAT BY THIS MEANS LABORATORY SCIENTISTS AND ENGINEERS WILL BE ENCOURAGED TO COMMUNICATE WITH EACH OTHER ON COMMON PROBLEMS OF INTEREST TO THEIR SERVICE LABORATORIES AS WELL AS TO COMMUNICATE WITH LABORATORIES OF THE OTER SERVICES.

SINCERE APPRECIATION IS EXTENDED TO MRS. EVELYN HUGHES AND HER ASSOCIATES OF THE US ARMY MANAGEMENT SYSTEMS SUPPORT AGENCY FOR THEIR EFFORTS AND ASSISTANCE IN PROVIDING A COMPUTER PRINTOUT FROM WHICH THIS REPORT IS PRINTED. SINCERE APPRECIATION IS ALSO EXTENDED TO MRS. JEANETTE MERRITT FOR HER KIND ASSISTANCE, AND TO MR EUGENE GROSECLOSE OF USAMSSA FOR HIS TECHNICAL TROUBLE SHOOTING WHICH MADE A COMPUTER PRINTOUT POSSIBLE. MR. FLOYD PURCE OF THE DEFENSE PRINTING SERVICE IS ALSO DESERVING OF A NOTE OF GRATITUDE FOR HIS EFFORTS IN PRINTING THIS DOCUMENT IN A THOROUGHLY PROFESSIONAL MANNER.

ADDITIONAL COPIES OF THIS DOCUMENT MAY BE OBTAINED BY WRITING THE DEFENSE TECHNICAL INFORMATION CENTER, BUILDING 5, CAMERON STATION, ALEXANDRIA, VIRGINIA 22314.

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SUMMARY

DEPARTMENT OF DEFENSE IN-HOUSE ROTGE FACILITIES

PROGRAM DATA FOR FY 1979

(WILLION2)
8372.823
3362.647
4892.11.7
2230.610
911.315

PERSONNEL DATA (END OF FY 1979)

PERSUNNEL	AUTHORIZED	TOTAL	TOTAL
	Strength	PHD	Professionals
MILITARY	25421	832	6243
CIVILIAN	65621	351 9	27413
TOTAL	91042	4351	33656

PHYSICAL FACILITIES (END OF FY 1979)

ACRES	9204499
SPACE (THOUSANDS OF SQ FT)	
LABURATURY ADMINISTRATIVE OTHER	29761.125 11111.955 57312.700
TOTAL	98185.780
CUST (MILLIONS)	
REAL PROPERTY EQUIPMENT	4821.210 4185.260
TOTAL	9006.470

PERSONNEL DATA

FUNDING DATA (MILLIONS \$)

INSTALLATION		TOTAL	TOTAL	INHOUSE	TOTAL	TOTAL .	PHO PHO		PROF	PROF
	TJTAL	INTOUSE	ROTEE	RDTEE		۲. د ا		> .	٦, ٢,	נו נו
AEROMEDICAL KESEARCH LABORATORY	4.789	4.177	3.17	3.159		Ç ;	Ξ΄	•	17	₹.
AIR DEFENSE BUAKD	7.610	7.118	3.495	3.151	117	ç	٥ (0 (77	.
AIRBORNE BUARD	2.990	2.990	1.427	1.427	8-1	ć,	0	ت	1	4
ARMOR AND ENGINEER BUARD	10.748	10.748	6.953	6.553	227	102	0	7	107	ĸ.
AKMY RESEARCH UFFICE	38,774	0.082	38.692	000.0	~ .	*	0	e .		34
ATMUSPHERIC SCIENCES LABURATURY	90	23.676	19.632	11,402	358	175	0	22	28	76
	4.782	4.182	011	\$:	2	숙 주	5 (7 .		× .
_	848.01	10.848	1.128	871.	162	9	-	٠,		.
VITY	162.7	5.658	6.317	\$ 10 P	ŝ	8	> (= 1 (٩;
AVIATION RESEARCH & TECHNOLOGY LABORATORIES	48.519	19.018	148.841	17.550	24	936	٥ (٠ د د		271
AVIUNICS R & D ACTIVITY	15.332	9.125	10.401	5.504	12	112	.	٠:	x 0 ;	551
BALLISTIC RESEARCH LABORATURY	449°67	36.970	45.854	34.748	56	755	7	00	0	390
JIOMEDICAL LABURATORY	0000	0000	0000	0000	99	121	5	0	4	4
CHEMICAL SYSTEMS LABORATORY	74.961	48.354	58 966	37.320	150	757	2	40	18	451
COLU REGIONS REE LABORATORY	12.157	9.527	5.364	3.454	1,	263	-	32	4	169
CULD REGIONS TEST CENTER	8.290	8.290	4.045	4.045	282	22	-	0	8	~
COMBAT SURVEILLANCE & TOT ACCUISITION LAB	55,559	12,319	34.590	6746	14	165	c	m	۲	103
COMMUNICATIONS - ELECTRONICS BUARD	2.199	2.190	1.263	1.263	42	31	0	0	4 (0)	~
COMMUNICATIONS K & 11 CUMMAND	59.22B	6.274	49.157	5.431		451	၁	10	13	271
CONSTRUCTION ENGINEERING RESMARCH LAB	10.537	489	6.945	Æ.	m	50		30	7	133
UUGMAY PROVING GRUUMD	24.253	21.397	17.594	15.306	150	619	-4	15	10	73
ELECTRONIC PROVING GROUND	6.48	19.594	10.162	5.080	587	213	0		47	26
FLECTRUNIC MARFARE LABORATORY	86.602	33,307	46.159	24.202	6 0	411		•	17	248
	24.454	;	22.024	11.876	•	278	c	33	0	169
	25.565	10.402	m	9.65.8	15	23	-4	<u>.</u>	۰	173
BAGINEER SATERNAYS EXPERIMENT STATION	8.60		16,227	14.218	14	1381	0	81	17	* 63
FIELD ARTHLERY BUARD	3.624	3.624	1.242	1.242	152	37	0	0	53	m
BINE CANTROL & SMALL CALL MPNS SYSTS LAB	38.318	20.244	23.264	~	13	98	Ç.	22	11	370
JARRY DIAMEND LABORATORIES	169.707	48.100	72.769	33,019	•	1148	_	57	40	453
LIMAN TACTACHET ING . ARTICA TORY	9.443	8.098	8.621	_	33	142	-	15	10	103
INFANTX BOARD	3,223	3.226	1.563	1.563	122	35	0	-	m	'n
INCTITUTE OF DEVIAL ARCHARCA	3.701	2.641	2.268	1.208	C	56	7	7	40	11
INSTITUTE OF SURGICAL ROSEASCH	4.322	4.322	2.057	2.057	149	8	22	٥	51	61
NATE ASSESSED SOUTH A STANDARD	3.411	1.041	2.759	1.041	60	54	0	2	23	œ
MARADALBIN MISSILE AANGO MARSHALL ISLANDS	108.660	5.670	100.940	4.890	27	103	0	-	11	55
u,	157,303	71,159	130.292	57.348	28	1763	0	8 1	23	1088
LETTERMAN ARMY INSTITUTE OF RESEARCH	9.060	090.0	6.413	6.413	170	108	ĭ	18	125	56
	36.604	0	25.691	15.402	1 à	\$	-4	61	2	061
MATERIEL SYSTEMS ANALYSIS ACTIVITY	21.263	15.120	16.564	10.416	29	411	0	22	13	315
MATERIEL TESTING DIRECTURATE	49.377	ø.	34.360	33,272	214	703	c.	00	23	1
MEDICAL BIDENGINEERING AED LABORATURY	4.645	4-455	3.561	3.371	34	105	m	N.	17	39
	27.299	27.299	25,550	25,550		26	77	0	ا ب	2
MEDICAL RSCH INST OF INFECTIOUS DISEASES	12,732	\sim	8,665	8.665	308	100	8	92	-	2
MISSILE RSCH . E DEV. CMU.	100,185	65.825	66.871	41.406	28	973	c .	7 1	61	Ş,
MUGILITY ELLIP & G D COMMAND	245.790	m (72.136	30.448	ř	2411	r	77	700	2 . S
(ANI)	160.75	221.01	34.533	77,067	101	0001	٠ ,	2 %	۰ د	9 6
	16/06/2	•	31.270	13.690	75	* *	۰ د	,,,	,	507
MENDARCH INVITOR BEHAVIORAL & DUCLAR DCI	919**7	12.503	2 026	200 6	9	070	, 0	701	1 0	77
	124 053	40,400	11 087	•	1 0	1 8	۰ د) kr	, ,	; ;
CARCATTO MARTINATO CARCANTO CA	170.408	23.952	45.371	1	4	705	'n	, <u>.</u>	ν φ.	34.7
		3. H22	۱ n	2.616	9	. 19	0	`-	4	, ,
MALTER ASEL AAMY INSTITUTE OF RESEARCH	27.571	27.571	- 60	18,954	£	440	153	63	327	166
ANUS MISSILE KANGE	167,295	۰.	135,495	•	625	27 50	-4	4 6	4 02	1024
THE PROVING GRUUND	45.223	45.223	38,333	36.333	343	603	9	0	41	1 6
Tilda.	724 7856	1114.382	1463 033	£76 786	6663	275.77	241	27.2	2 80 10	70136
•	F70+1077	706.0111	76	,		11.77	.	7 17	ŝ	1

TASLE 2. APMY RUTGE FACILIFIES DATA, FY 1979

		SPACE		SPACE AND PROPERTY (THOUSANDS OF SOUARE FEET)	RE FEET)	COST (MILLIONS	.L IONS \$)
		•				REAL	
INC. ACES. LOS		ACRES LA	80	NIMON		PROPERTY	こうし ひがにいて
A DE LA SECTION AND A SECTION OF A SECTION AND A SECTION AND A SECTION ASSESSMENT OF A SECTION ASSESSM	FT-RICKED, AL.	70	52.747	7.707	21.884	440.0	7.667
	EL DASPITX.	20	35,530	34.326	19-132	1.269	4.855
	FT. BKAGG, N.C.	27	3.978	3.014	39.390	0.971	920.7
ADECO AND WIND NO THE DURKED	FT .KNOX .KY.	2	63.365	50.454	690" 6	1.455	2.410
AND ALVERON CHILD	JUKHAM, N. C.	0	0000	23.440	000-0	0000	0.350
ATMUSPHERIC SCIENCES LAGINA FORY	MHITE SANDS MR.N.M.	4.5	52.541	26.663	11.409	7.374	19.377
AVIATION BOAKU	F F.R JCKEK+AL.	9	000	18.514	12.961	000.0	0.44.0
AVIATION OFFICIAMENT FEST ACCIVICA	FT. AUCKERSAL.	1196	000.0	39-124	114.026	787-1	567.67
AVIATION ENGINECATING PLIGHT ACTIVITY	EDWARDS AFB,CA.	14	9.200	16.000	124.800	3.632	A 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
AUTATION RESEARCH & TECHNOLUGY LABORATURIES	MOFFETT FICED, CA.	127	848.88	58.673	076.91	100	200°, C
AVIONICS R & U ACTIVITY	FT. MUNACCITY, N. C.	0 (10.00	55.500	0000	30.0	25000
BALLISTIC KESEAKCH LABURATURY	ARERDGEN PROV-68. + MU.	1920	539.702	11.200	7200	000	241.00
SIGMEDICAL LABORATORY	ARGADIEN PROV. GR. TO	C 666	200	000.0	00.7	2000	200.46
CHEMICAL OYSTEMS LANGURATURY	AMERICAN PRO . GR. 140	0007	400.470	04.104	3.25 6.6	768.7	3,00
COLD REGIONS REFERENCE THPY	TANADALI TANADALI	4,7164	5 23	120.05	783.565	12, 196	8000
		77710	402.69	26.4	10.580	98.0	11,433
3	THE WILLIAM OF THE CO.	,	120	010	607 6	0.125	2.077
COMMONICATIONS - FLECTRONICS BOARD	TI TONEDON OF THE	۰ ۵	2	4.042	000	0000	10.800
COMMENTAL CANADAM A PLANT CONTRACTOR OF THE CONT	Control of the same		76.081	34.150	0.00	3.89.6	4.438
CONSTRUCTION ENGINEERING RESTARCH LAB		902	100 X	201.123	1642,266	705.06	26.762
CASAAY YROVING SATIONS	SUSSESSED OF A STANDARD AND A STANDARD A STANDARD A STANDARD A STANDARD A STANDARD A STANDARD A	10000	000	00 8 00	215.242	7-127	51,200
ELECTRUMIC PROVING GROON	- West of the Control	4	142.936	717.75	48.502	92.766	42.961
ELECTRUNIC MARFARE LABORATORY	THE THE CASE OF THE	o c	RG . 500	30.636	7.790	000	14.527
5 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	THE MENTAL PARTY OF THE	, e.	90.722	2,000	12,300	9	6.713
ANGELSEREN TOROGRAPALIO ENGONA LOS	TO A COLLEGE OF THE PARTY OF TH	722	1724.058	359.819	170.488	20.622	37.524
CACAMEN MALTENAV CATTALION OF FLOW	FT-Aft-OK	23	22.506	32.802	13,325	3,330	1.080
FIELD AKTILITERY SUAKO		301	61.183	066.94	000.0	2.295	7.770
TIME CONTROL & MARIE CALL MENS STATS LAN	WANTINGTON, D.C.	2337	430.802	71.090	260,573	50.384	38.746
TAKEN PROPERTY OF THE PROPERTY	A LEROSEN PAUL CR. MU.	12	22.000	26.500	20,030	4.412	3.806
	FT. SENNING, GA.	_	000.0	32.203	30.156	0.40	0.818
INTITUTE OF DENTAL RESEARCH	MASHINGTON, D.C.	4	9.325	5.490	4.730	0.875	1.791
INSTITUTE OF SURGICAL RESEARCH	FT.SAM HOUSTUN, TX.		26.424	1.600	22.400	2,313	2.200
INTELLIGENCE & : -CURITY BUARD	FT HIRCHUCHASAR.	01	000-0	5,000	42.663	0.025	1.659
KHAJALEIN HISSILE KANGEFMARSHALL ISLANUS	APU SAN FRANCISCO	1641	000.0	158.047	428.4062	768.746	006.10
LARGE LALIBER WEAPONS SYSTEMS LAN	201VE≺+N•J•	1251	204.685	184.072	128.700	9.780	007.00
LETTERMAN ARMY INSTITUTE OF RESEARCH	SAPEIDIO, S.F. +CA.	o :	133 - 198	60.00	160 030	105.41	150
MATERIALS AND MEGHANICS ALSEARCH CRATCH	WATER LUWN FIA	ţ, .	101.400	00 40 A0	F 245	2.070	0.767
MATERIEL SYSTEMS ANALYSIS ACTIVITY	STATE OF STA	ן האפרי	726.217	176.4	269.F47	17.245	43.344
MATERIAL TENTING DIRECTORATE CONTROL TO A SECOND DESCRIPTION	FINE FORCE AND A STANFALL OF	5	45.103	27.300	34-108	3.22 R	3.014
MODICAL BLOOMSINGNO NEU LAUGNATON	HT.DETPTCK.MD.	-	0.000	33.022	0000	0.151	0.610
ABOUTON: OCCUPANT ON THE PROPERTY OF THE PROPE	FT.DETRICK.ND.	43	80.854	19.820	500,699	17.824	946-9
,	REDSTON: ANDENAL, AL.	11000	663.993	318,702	428.008	131.00	000°96
MUNICIPAL FULLING A B O COMMAND	•	1004	750.840	146.730	200.879	60.67	34.947
APTICK BED COMMAND	NATICK, MA.	2913	552,557	65.400	417.862	27.335	18.857
NIGHT VISION & BUFURO DATICS LANDRAFORY	FT.9FLV01K+VA.	38	180.639	27.186	20.00	32.000	000.04
	WA SHINGTOR, D.C.	0	46.110	2.559	6.100	0.000	1. (95
KSCH INSTITUTE UP ENVIKUNMENTAL MEDICINE	NATICK, MA.	* ;	60.421	18.563	740.87	700	7000
	VINT HILL+VA.	61	3.936	101.25	000	700.00	
		717	20 510	35.025	0 m	1,067	2,384
	FIGENTIONS C.Z.	202	AT 0.02	58-360	000-0	10,080	**
MALTER REED ARAY INSTITUTE OF RUSEARCH	************************************	4214377	1409,729	469.828	3007.638	185.192	_
ATITY SANCE MISSING CANGE VINA PRINTING GREEND	YORK AZ	870309	0.832	112,690	1294.937	46.997	
	•						

1579.221 1382.466

6653165 10243.011 3487.431 12761.268

TABLE 3. NAVY ROTSE ACTIVITIES, PROGRAM AND PERSONNEL DATA, FY 1979

INSTALLATIUN AERUSPACE MEDICAL KESEARCH LABURATUKY AIR DEVELUPMENT LENJEK	T01A: 6-775 6-181	FUNDING TOTAL INHUUSE 5.21.2 89.336	DATA (MILLIONS TOTAL II RDTEE 5.662 127.081	DNS \$) INHQUSE RDT&F 4.113 61.190	TOTAL Mil 51 290	TOTAL CIV 118 2109	PERSONNEL PHO PA V MIL C 8 20 3	2 5727	17A PROF KIL 26 86	PRGF CIV 50 1085
AIR PRUPULSION CENTER AIR TEST CENTER ARCTIC RESEARCH LABURATORY	28.627 123.240 10.376	21.044 97.914 0.056	24.458 62.311 8.841	18.304 50.801 0.000	8 1565		6 m 0		193	351
ATLANTIC FLEET MEAPONS TRAINING FACILITY BIOSCIÈNCES LABORATORY CIVIL ENGINÈERING LAHORATORY	18.043	3.801	0.239 2.446 22.850	0.202	. 50 c 5		007-	000	5 ~ «	61 0 51
CLUTHING E TEXTLE RESEARCH FACILITY COASTAL SYSTEMS CENTER DAVID WE TAXED SHIP WED CENTED	2°156 46°898 177.744	1.989	1.060 33.067	1.060	111		•00-	1 0 C	22	37 269 269
DENTAL RESEARCH INSTITUTE NTC ENVIRONMENTAL PREDICTION RESEARCH FACILITY	1.242	1.567	3.151	0.697	1 23		12	4 9	120	23
EXPLUSIVE ORUNANCE DISPUSAL FACILITY HEALTH RESEARCH CENTER MEDICAL RESEARCH INSTITUTE	9.173 2.927 14.385	5.406	3.648	1.677	36 33 540		0 ~ 0	101	10	38
MEDICAL RESEARCH UNIT NO.2 MEDICAL RESEARCH UNIT NU.3	2,506	2.496	2.057	2.057	31		, 40 40	12) - 9	4.00
NATIONAL PARACHUTE TEST RANGE OCEAN R & D ACTIVITY OCEAN SYSTEMS CENTER	15,967 32,424 241,687	11.886 14.914 119.125	10.017 29.891 159.562	8.551 13.618 85.889	202 10		0 10 0	44 165	12 10 127	216 216 1286
DFFICE UF NAVAL RESEARCH UNDNANCE MISSILF TEST FACILITY PACIFIC MISSILE TEST CENTER	396.509 5.741 283.631	15.192 3.494 175.942	264-738 4-066 112-249	14.095 2.225 78.574	31 85 1060		. m m	N 0 8	23 33 271	266
PERSUNNEL RESEARCH & DEVELOPMENT CENTER RESEARCH LABORATORY	17.112 220.818	8.961	13.579	7.172	27		-09	283	27	171 1539
SOBMAKINE BEDICAL KESMAKCH LABOKATUKI SURFACE WEAPONS CENTER JNDERSEA MANGES DEPAKTMENT	7.48 / 308.506 32.621	22.860 22.860	213.932 25.028	97.873 21.828	125 44		g m o	1 1 1 1	1 5 E	2117 2117 26
UNDERWATER SYSTEMS CENTER WEAPONS CENTER WEAPONS EVALUATION FACILITY	2864,435 283,951 7,547	113.554 151.279 6.741	133.843 181.390 2.193	56.111 102.713 1.732	99 583 147		-0-	98 123 2	26 29 15	1397 1387 39
TOTALS	2798,701	1374,543	1786-122	898.802	5559	31150	158	1726 1	12121	12881

TABLE 4. NAVY RDTGE FACILITIES DATA: 1. 1479

		ď	SPACE AND PROP SPACE (THOUSANDS OF	SPACE AND PROPERTY (THOUSANDS OF SQUARE	r (Re FEET)	COST (MILLIUMS *)	
TNOTA: ATTION						REAL	
		ACRES	ACRES LABORATORY	ADMIN	OTHER	PROPERTY	EUCIPHENT
AFRINSPACH MEDICAL RESEARCH LABORATORY	PENSACOLA, FL.	•	172.546	11.768	9.400	3,130	4.033
AND STATE OF A STATE O	JOHNSV ILLE, PA.	840	825.000	83.070	654.000	33,000	51.754
CION CHARK	TRENTUN. N. C.	99	376.704	37.973	211.766	50.979	11.516
ATO TRANS CRIME	PATHKENT RIVER MD.	7106	951,106	363.500	3501.167	161.414	23.521
AND THE CONTRACT AND	BARROM AK.	4987	47,310	15,987	368.049	13, 158	1.675
ANGLIC NESERVOI ENGINATORI MAI TATA	RUNSEVELT ROADS P.R.	3602	0000	14.957	154.005	10.902	86L 96
A FRANCISC TERM TERMONAL CALLERY CONTROL OF THE CON	DAKI AND-CA	160	77,625	8.731	34.645	1.80	2.400
OLICACIE CAGE CAGE AND A SELECTION OF THE SECOND CAGE AND A SELECTION OF THE SECOND CAGE AND A SELECTION OF THE SECOND CAGE AND C	PURT HUENEME CA.	30	81.840	71.748	44.158	7,593	3.429
INDER THE EXCENSION FACTOR OF A CAMPAN OF	NAME OF STREET	-	13.000	7.000	3.000	0.40	0.975
CECTAFAG & TEXTLAND PROBANCE TOCHTAIN	PANAMA CITY FL	665	346.019	38.150	247.230	33.214	17.280
TAKE DE VETTE KEED ONNERS	PETHESON, MO.	324	1709.038	102.847	245,262	70.908	688.69
CANTO MA INTROVIDUO CONTRA CON	GREAT LAKES, T.	0	13,919	6.923	15.714	0.00	0.578
CONTRACTOR SECTION AND AND AND AND AND AND AND AND AND AN	MONTEREY	0	1.362	4.858	10.594	000.0	0.883
CHAIN CONTRACTOR THE TOTAL CONTRACTOR THROUGH THE CONTRACTOR THROUGH THE CONTRACTOR THROUGH TH	INDIAN HEAD. MD.	1087	34.681	16,936	53.249	4 247	1.004
TOTAL TE DESTRUCTE CONT. CONT. CONT. TOTAL TOTAL CONT.	SAN DIRECTOR	7	11.177	4.500	0000	00000	0.613
TOTAL STOCK OF THE	BETHESDA.MD.	4	145.868	004.6	40.259	4. 70	9.033
CONTINUE CONTINUES OF CALCULATION OF	MANILA PHILIPPINES	0	10.370	3.500	0.600	0,0	0.807
MEDICAL MESERANCE UNIT NO.3	CAIPO, EGYPT	۱'n	41.068	8.962	55.350	1 ° ' 3	0.136
NATIONAL PARACRUTE TEST RANGE	EL CENTRO, CA.	484608	9.400	56.670	1142,407	33 061	20.629
JOHAN & E D ACTIVITY	BAY ST.LOUIS,MS.	5	63,976	18,990	25.794	9.00	2.000
された フェルトシャ フォロしつ	SAN UIRGUAGA.	3847	1162.394	205,889	163,233	39.507	130.640
CONTRACT MACAL WARRENCE	WASHINGTON D.C.	C	9°0°0	86.000	0000	0.00	9
CONVENCE MATCHER TEXT FINE TO	MAITE SANDS.N.M.	8	108.566	30,539	78.694	5.822	10.106
(ではない) アイト・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・アン・	POINT MUGU.CA.	27084	945.133	396.770	3490.532	143.664	133.514
SCORPEG DIGHTON TO THE TRANSPORT OF THE	SAN LITEGU. CA.	_	63.580	7.080	000.0	0.485	2.350
PROCESSED TAKED A TORY	MASHING CON D.C.	798	2312.917	192.677	479.359	91.868	100.225
A CONTRACTOR OF THE CHARLES AND A CONTRACTOR OF THE CONTRACTOR	GRITTON.CT.	_	40.514	14.099	0000	1.105	1.806
CODENSE LEADEN CRATER	SILVER SPRING. MO.	5380	1656.578	175,258	1285.183	474.06	85.325
SOUTH SERVICE OF THE	NEWPORT.RI.	1042	75.603	17,339	304.954	24.182	1.305
ANGEL SELECTION OF THE PROPERTY OF THE PROPERT	NEUPORT, R.T.	36.7	1059.983	241.839	593.567	45,978	53.078
CANADAR CANADA	CHINA LAKELAA	1127016	1155.058	400,259	5120.635	226.915	98.172
MEAPONS EVALLITION FACILITY	ALBUQUERQUE,N.M.	7	0.400	53,592	94.926	009*6	0.998
TUTALS		1668976	13506.735	2707.741	18412.883	1119.089	943.072

TABLE 5. AIR FORCE RUTGE ACTIVITIES, PROGRAM AND PERSONNEL DATA, FY 1979

		FUNDING	DATA (MILLIONS \$	ONS \$1		PE	PERSONNEL DATA	EL DA	4	
INSTALLATION		TUTAL	TOTAL	INHOUSE			£	£	PROF	PROF
	TUTAL	INHUUSE	ROTEE	RDTEE	MIL	C IV	HIL	CI V	MIL	CIA
AERU PRUPULSIUN LABURATURY	91.298	15.025	90.310	14.037			m	28	35	213
AERUSPACE MEDICAL RESEARCH LABURATURY	15.297	6.561	15.297	6.561			16	22	26	46
ASSESSED TOTAL STOR	1248,527	231,403	372,980	147.406			28	37	851	801
ARNULU ENGINEERING DEVELOPMENT CENTER	131.461	16.375	12+*567	14.429			€0	6 0	48	6 4
AVIGNIC: LABURATURY	143.291	31.991	1,9,592	28.862	_		6 0	32	108	427
EASTERN SPACE & MISSILE CENTER	184.659	53.592	0.000	0.000			7	-	120	79
ENGINEERING & SERVICES CNIR / RU	7.845	1.968	6.173	0.301			ĸ	7	4	11
FLIGHT DYNAMICS LABURATORY	97.179	37.894	93.702	34.597			11	22	115	‡
FLIGHT TEST CENTER	156,504	119.136	93,354	70.324			-	m	136	194
FRANK J SEILER RESEARCH LABURATURY	1.258	1.258	0.638	0.438			17	-	21	•
GEOPHYSICS LABORATORY	60.108	30,143	51.065	26.000	_		۲	7.4	41	271
HUMAN RESOURCES LABURATORY	26.163	10.728	22.477	8.077			12	42	84	144
MATERIALS LABORATURY	91.157	10.745	63°388	15-541			∞	26	47	239
UFFICE OF SCIENTIFIC RESEARCH	101.178	23.282	100.130	22.234			^	19	17	23
ROCKET PROPULSION LABORATURY	38.447	13.468	36.145	11,166			7	13	49	06
KOME AIK DEVELUPMENT CENTER	206.564	27,201	159.571	23.974			~	56	109	592
SCHOUL OF AEROSPACE MEDILINE	22.504	15,823	16.734	10.053			57	36	109	66
WEAPONS LABORATORY	189.463	64.683	178.135	53,005			28	49	388	240
WESTERN SPACE AND MISSILE CENTER	87.100	87,100	1.960	1.900			4	0	231	152
4950 TEST WING	54.218	43.381	51.984	41.147			~	0	169	86
6585TH [EST GRUJP	25.356	14.444	16.292	c.735			m	6 0	4,	16
TOTALS	2980,577	862,201	1634.485	539,987	13137 11766		261	501 2865		4356

TABLE 6. AIR FORCE RDTGE FACILITIES DATA, FY 1979

			マ いくしゃ	NO PROPER	•		COST CHILLIONS ST
		SPJ	SPACE (THOUSANDS OF SQUARE	NOS OF SOU	ARE FEET!		
INSTALLATION						REAL	
		ACRES 1	ABORATORY		OTHER	PROPERTY	EQUIPMENT
AERU PRUPULSION LABORATURY	AP AFIG OH.	9	229.490		105,665	56.100	193.130
AERUSPACE MEDICAL RESEARCH LABURATURY	WPAFR, UH.	30	73.614	5.247	47.78	21.200	27.835
ARMAMENT DIVISION	EGLIN AFB,FL.	464219	320.295	976.427	10630,000	290,401	163.727
ARNOLU ENGINEEKING DEVELUPMENT CFNTER	TULL AHOMA, TN.	39081	1092.409	182.573	561.154	378.772	60.850
AVIONICS LABORATORY	WPAF8, DH.	558	250.901	8.775	412,829	24,069	094.89
EASTERN SPACE & MISSILE CENTER	PATRICK AFS,FL.	18133	129,369	1213.525	4510,214	370,318	406.695
ENGINEERING & SERVICES CNTR / RO	TYNDALL AFB, FL.	m	4.981	2.400	9.751	1.600	1.202
FLIGHT DYNAME (S LABORATORY	WPAF8, OH.	92	518.859	5.408	143,317	26.186	50.516
FLIGHT TEST CENTER	FOWARDS AFB, CA.	227071	102.125	263,504	6737,323	279.068	124.052
FRANK J SEILER RESSARCH LABURATORY	USAF ACADEMY,CO.	1	19,003	1000.0001	0000	1.722	1.689
GEOPHYSICS LABORATORY	HANSCOM AFB, MA.	358	391,903	15.006	25,833	9.717	29.700
HUMAN RESOURCES LABURATORY	BROOKS AFB, TX.	13	76.369	49.759	54,680	5,487	33.182
MATERIALS LABGRATORY	WPAF8+0H.	15	228.809	39.6AI	117,009	23.344	17.041
UPFICE OF SCIENTIFIC RESEARCH	WASHINGTON+D.C.	0	0.000	41,300	1.700	0.000	0000
ROCKET PROPULSION LABORATORY	EDWARDS AFB,CA.	68345	419.046	85.848	4.780	125.000	23.487
ROME AIR DEVELUPMENT CENTER	GRIFFISS AFB, N.Y.	1517	772.193	87.767	168.762	30,351	52.996
SCHUUL UF AEROSPACE MEDICINE	BRODKS AFB, TX.	*	363.855	17,980	53,176	17.581	20.401
WEAPONS LABORATORY	KIRTLAN" AFB, N. M.	702	553.823	105.574	125,118	76.961	69.493
MESTERN SPACE AND MISSILE CENTER	VANDENBERG AFB,CA.	55586	36.000	617,000	1109,000	260.000	49.500
4950 TEST WING	WPAF8.OH.	227	0.0GC	68.176	961,598	15.352	406.133
OSBSTH TEST GRUUP	HOLLOMAN A B, N.M.	2 ₀ 99	386.000	7.000	163,000	102.660	53.700

TOTALS

2114,989 1854,190

882348 5969.044 4895.734 26081.715

FABLE 7. UEPARTMENT OF DEFENSE ROTGE ACTIVITIES, PROGRAM AND PERSONNEL DATA, FY 1979

		FUNDING D	DATA (MILLIUNS \$)	CR S NO		PE	PERSONNEL DATA	EL 0A7	₹	
INSTALLATION	ToTAL	TOTAL	TUTAL	INHOUSE	TOTAL	TOTAL		PHO	% 0F	PROF
ARMED FURCES RADIOBIOLOGY RSCH.INSTIFTE	9.521	9.521	7.578	7.578	1 80	128	12	85 62) t (2) 3	42
TOTALS	9.521	9.521	7.578	7.578	6 0	128	32	50	S 8	4.2

SUMMARY

DEPARTMENT OF DEFENSE IN-HOUSE RED LABORATORIES

PROGRAM DATA FOR FY 1979

	(WITTION2)
TOTAL ANNUAL LABURATORY PROGRAM	6193.485
TOTAL INHOUSE FRUGRAM	2300.432
TOTAL ROTEE PROGRAM	3580.786
TOTAL INHOUSE RUTGE	1636.342
TUTAL ANNUAL OPERATING COST	617:604

PERSONNEL DATA (END OF FY 1979)

PERSONNEL	AUTHURIZED	TUTAL	TOTAL
	Strength	PHO	PROFESSIONALS
MILITARY	12195	788	3951
CIVILIAN	47300	32 77	228 1 2
TOTAL	59495	4045	26763

PHYSICAL FACILITIES (END OF FY 1979)

ACKES	1705281
SPACE (THOUSANDS OF SQ FT)	
LABORATORY ADMINISTRATIVE OTHER	23192.309 6242.774 24845.731
TOTAL	54280.814
COST (MILLIONS)	
REAL PROPERTY EQUIPMENT	2037 . 137 2172 . 595
TOTAL	4209.732

TABLE 1A. ARMY KEU LARURATORIES, PROGRAM AND PERSONNEL DATA, FY 1979

		FUNDING	DATA (MILLIONS	ONS \$)		<u>w</u>	PERSONNEL DATA	EL D	1TA	
INSTALLATION	•	TOTAL	TOTAL	INHOUSE	TOTAL	TOTAL	£	£	PROF	PROF
Aughternes of a females of a females of a	101AL	LINHOUSE 4-177	* 771	X.0.15.11	71.	> '] = E	*	71 27	֡֓֞֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֓֓֓֓֓֡֓֡֓
ARROGATION ARGENTANCE TANGENTANCE TANGENT ARCHITECTURE TO CATEGORIES AND ARCHITECTURE TO CATEGORIES AND ARCHITECTURE TO CATEGORIES AND ARCHITECTURE	31.906	23.676	19-632	11.402	300	3 E	0	2.2	28	9.
ACMATTEM RESPENDED FORMOUGH ABORATORIES	915 B4	19.018	44.841	17.550	*	536	0	35	11	271
AVIDATES R E D ACTIVITY	15.332	9.125	10.401	5.504	12	211	0	40	40	133
BALLISTIC RESEARCH LARURATORY	48.644	36.970	45.854	34.748	56	755	7	100	01	390
BIUMEUICAL LABORATURY *	0.000	000°u	00000	000.0	99	121	25	0	4	54
CHEMICAL SYSTEMS LABORATORY	74.961	48.354	58.966	37.320	150	757	23	46	78	451
CULU REGIONS REE LABURATORY	12-157	9.527	£90°5	3.454	14	263	~	32	4	100
COMBAT SURVEILLANCE & TGF ACQUISITION LAB	55.559	12.319	34.590	6.749	14	165	ດ	W)	7	103
COMMUNICATIONS R & U COMMAND	59.228	6.274	49.157	5.431	28	421	0	20	13	271
CONSTRUCTION ENGINEERING RESEARCH LAB	10.537	8.684	6.945	6.330	m	204	-	30	7	133
ELECTRUNIC MARFARE LABURATORY	86.692	33,307	46.159	24.202	80	411	~	٥	17	243
ELECTRONICS TECHNOLUGY AND DEVICES LAB	28.454	14.275	22.024	11.876	0	278	0	W	0	169
ENGINEER TUPGGRAPHIC LABURATORIES	25.565	10.402	23.253	8.994	₩.	299	~	61	Φ.	173
ENGINEER WATERWAYS EXPERIMENT STATION	58.665	47.240	16.227	14.218	16	1381	0	8 9	11	493
FIRE CUNTROL & SMALL CAL. MPNS SYSTS LAB	38.318	20.244	23.264	12.089	13	566	0	22	11	370
HARRY DIAMOND LABURATURIES	165,707	48.100	72.769	33.419	•	1148		57	40	453
HUMAN ENGINEERING LANGRATURY	9.433	8.098	8.621	7.292	33	142	~	15	9	103
INSTITUTE OF DENTAL RESEARCH	3,701	2.641	2,268	1,208	8	97	~	7	3	
INSTITUTE UF SURGICAL RESEARCH	4.322	4.322	2.057	2.057	149	80	22	9	21	61
LARGE CALIBER WEAPONS SYSTEMS LAS	157,303	71.159	130 • 292	57.348	29	1763	0	81	23	1088
ELETTERMAN ARMY INSTITUTE OF RESEARCH	090*6	690.6	6.413	6.413	170	108	31	18	125	26
MATCHIALS AND MECHANICS RESEARCH CENTER	36.604	20.018	25.691	15.902	18	409	-	61	2	190
" MEDICAL BIUFNGINEGRING RED LABURATORY	4.645	4.455	3.561	3.371	34	102	m	15	17	39
MEDICAL R & U COMMAND	27.299	27.299	25.550	25.550	57	92	21	0	9	~
MEDICAL RSCH INST OF INFECTIOUS UISEASES	12.732	12.732	8.665	8.665	308	199	48	56	11	2
MISSILE RSCH . & DEV. CMU.	100.185	65.825	66.871	41.406	58	913	0	45	16	909
MOBILITY EQUIP R & D COMMAND	245.790	43.344	72,736	30.448	Ç,	1182	-	21	17	378
NATICK RED CUMMAND	52.091	39.188	34,353	23.722	104	1083	_	2	28	446
NIGHT VISION & ELECTRO OPTICS LABORATORY	249.791	18.779	37.276	13,895	32	450	0	29	~	203
RESEARCH INST FOR BEHAVIORAL & SOCIAL SCI	24.816	12,203	24.129	11.516	30	328	7	132	21	189
RSCA INSTITUTE OF ENVIRONMENTAL MEDICINE	4.903	4.903	3.925	3.935	8	46	ው	91	9	44
SIGNALS MARFARE LABURATURY	124.953	5.656	11.087	1.730	۷.	168	0	į,	53	21
TANK-AUTO & & U CUMMAND	170-408	23,952	65,371	13.448	6	705	œυ	•O	æ,	345
MALTER REED ARMY INSTITUTE OF RESEARCH	27.571	27.571	18.954	18.954	473	440	153	63	327	991
TUTALS	2033.640	752.897	1030,747	525,905	2721	16394	372	1137	1206	7933

TABLE 2A. ARMY RED FACILITIES DATA, FY 1979

				SPACE AND PROPERTY		COST (HI	COST (MILLIONS \$)
		140	SPACE (THOUSE	(THOUSENDS OF SOUARE	IRE FEET)		
INSTALLATION						REAL	
		ACRE . L	LABORATORY	NIWLY	OTHER	PROPERTY	EQUIPMENT
AERUMEDICAL MESEARCH LABURATURY	FT.RUCKER,AL.	2	52.747	7.797	21.884	0.844	7.667
ATMUSPHERIC SCIENCES LASORATURY	WHITE SANDS MR, N.M.	4	52.541	26.663	11.409	7.374	19.377
AVIATION RESEARCH & FECHNOLOGY LABURATURIES	MOFFELT FIELD, CA.	121	88.848	58.673	16.370	1,431	17.808
AVIONICS R & D ACTIVITY	FT.MONMO-ITH, N. C.	0	16.000	33,500	0.000	0.00	850°J.
BALLISTIC RESEARCH LABORATORY	ABERDEEN PANV.GR., MD.	1920	539.702	11.200	40.982	14.595	33.742
GIOMEDICAL LABORATURY *	ABERDEEN PROV. GR., HD	c	0.000	000.0	000.0	0000	0000
CHEMICAL SYSTEMS LABOR , IURY		2000	579.564	84.169	405.670	22.032	269.92
COLD REGIONS REE LABURATORY	HANDVER N.H.	24	80.786	30.027	128.544	7.894	6.959
COMBAT SURVEILLANCE & TGT ACQUISITION LAB	FT.MONAGUTH, N.J.	35	52 = 324	6.139	10.589	0.950	11,333
COHMUNICATIONS & E D COMMAND	FT MONMOUTH, N. C.	0	72.746	4.642	00000	0000	10.800
CONSTRUCTION ENGINEERING RESEARCH LAB	CHAMPAIGN, IL.	30	76,081	34.159	0000	3,896	4.438
ELECTRUNIC WARFARE LESORATORY	FT.MUNMOUTH, N.J.	•	142.936	37.617	43.502	92.766	42.961
ELECTRUNICS TECHNOLUSY AND DEVICES LAB	FT.MONMOUTH, N.J.	0	89.500	30,636	7.290	00.0	14.527
ENGINEER TUPUGRAPHIC LABORATURIES	FT.4ELVOIR,VA.	33	90.722	7.000	13,300	6.000	6.713
ENGINEER MATERMAYS EXPERIMENT STATION	VICKSBURG, MS.	722	1724.058	559.810	170.488	20.622	37,524
FIRE CONTRUL & SMALL CAL. WINS SYSTS LAB	OGVER, N.J.	391	61.183	16.990	00°°	2.295	7.770
HARRY DIAMOND LABORATURIES	WASHINGTON, D.C.	2337	430.802	71,090	269.573	50,384	38.746
HUMAN ENGINEERING LABORATURY	ARERDEEN PRO-GR., HU.	12	22.000	26.500	29.000	4.412	3.806
INSTITUTE OF DENTAL RESEARCH	WA SHINGTON, D.C.	4	9.325	2.696	6.730	0.875	1.791
INSTITUTE UF SURGICAL RESEARCH	FT.SAM HOUSTON, TX.	ત	26.424	1.800	22.400	2,313	2,200
LARGE CALIBER WEAPONS SYSTEMS LAB	DOVER, N.J.	1251	20++685	184.072	128.700	8.586	902.99
LETTERMAN ARMY INSTITUTE OF RESEARCH	PRESIDIO.S.F.,CA.	•	133.198	36.506	305,309	42.423	10,333
MATERIALS AND MECHANICS RESEARCH CENTER	WATERTOWN, MA.	4 8	389,161	83,380	160.030	15.591	16.150
MEDICAL BIDENGINEERING RED LABORATURY	FT.DETRICK, MU.	ęv.	45.103	27,300	34.108	3.228	3.014
MEDICAL R & D COMMAND	FT.DETRICK,MU.	-	0000	33.022	000.0	0.151	0.610
MEDICAL RSCH INST OF INFECTIOUS UISEASES	FT.DETRICK, MD.	43	80.854	19.620	509-698	17.624	946.9
MISSILE RSCH . & DEV. CMD.	REDSTONE ARSENAL, AL.	11000	663.993	318,702	428,008	131,000	900°06
MOBILITY EQUIP R & D COMMAND	FT.BELVDIR, VA.	1064	750,849	146.730	200.879	49,093	34.947
NATICK RED COMMAND	NATICK, MA.	2013	552,557	65.900	417,862	27, 336	18.857
NIGHT VISION & FLECTRU PPTICS LABURATORY	FT.BELVOIR,VA.	38	180.639	27.186	20.000	22,000	50.000
RESEARCH INST FUR BEHAVIUPAL & SUCIAL SCI	WASHINGTON, D.C.	С	46.110	2.559	ÿ ₀ I•9	0.000	1.795
RSCH INSTITUTE OF ENVIRONMENTAL MEDICINE	NATICK,MA.	\$	60.421	18,563	28.647	3.713	3.825
SIGNALS WARFARE LASORATORY	VINT HILL, VA.	01	3.936	32.101	3.963	2.000	086.6
TANK-AUTU R & D COMMANU	WARREN, MI.	11	140,319	256.66	000.0	38,294	135.000
MALTER REED ARMY INSTITUTE OF RESEARCH	WA SHINGTON, D.C.	203	332.974	58.360	0000	16.080	17,609
TUTALS		24297	7843.088	2068.265	3155,126	621,007	769.218
		1					1

TABLE 34. NAVY RED LABORATORIES, PROGRAM AND PERSONNEL DATA, FY 1979

		FUNDING	DATA (MILLIONS &	(\$ SNC		P.	PERSONNEL DAT	EL DA	¥	
INSTALLATION		TOTAL	TOTAL	INHOUSE	TOTAL	TOTAL:	GHG		PROF	PRDS
	TOTAL	INHOUSE	ROTEE	POTEE	MIL	<u>۲</u>	#IL		HIL	<u>ر ۲</u>
AERUSPACE MEDICAL RESEARCH LABORATORY	6.175	5.212	5.662	4.113	51	118	20	_	5 0	90
AIR DEVELOPMENT CENTER	181 -196	89.336	127.081	61.190	240	2109	4		86	1085
ARCTIC RESEABLH LABURATORY	10,376	0.056	8.841	0000	*	0	0	_	C)	0
STOSCIENCES LABORATORY	3.563	0.895	2.445	0.591	0	٥	7	0	FU.	0
CIVIL ENGINEERING LABORATURY	25.777	13,923	22,850	11.724	16	303	-	28	w	1.70
CLOTHING & TEXTILE RESEARCH FACILITY	2,156	1.989	1.060	1.060	1	55	c	-	-4	37
COASTAL SYSTEMS CELTER	46.898	25.547	33.067	16.989	111	621	ဂ	21	12	569
DAYIU W. MAYLOR SHIP RED CENTER	177,244	109.356	125.978	73.21R	4.0	5489	,-	126	25	1106
DENTAL RESEARCH INSTITUTE, NTC	1.242	1.242	269-0	154.0	29	18	12	m	16	4
ENVIRONMENTAL PREDICTION RESEARCH FACILITY	3.412	1.567	3.151	1.306	14	33	-	!~	U N	23
HEALTH RESEARCH CENTER	2.927	2.927	2,371	2.371	33	9	t-	10	16	ĸ
MEDICAL RESEARCH INSTITUTE	14,385	13,193	11.269	10.077	576	34.	69	** **	88	9.5
MEDICAL RESEARCH UNIT NO.2	2.625	2.496	2.057	156.5	31	54	•0	m	5	4
MEDICAL RESEARCH UNIT NO.3	2,506	1.203	1.913	9.530	27	%	9	12	01	4.7
DCEAN R & D ACTIVITY	32.424	14.914	29.891	13.618	0,	261	m	17	CI	216
OCEAN SYSTEMS CENTER	241.687	119.125	159.562	85.889	321	2470	0	165	127	1286
PERSONNEL RESEARCH & DEVELOPMENT CENTER	17,112	8,961	13.579	7.172	27	267	-	19	•	171
RESEARCH LABORATORY	220.818	181,726	188.575	149.483	143	3251	0	296	23	1539
SUBMARINE MEDICAL RESEARCH LABURATORY	2.487	2.487	1.960	1.960	30	95	10	12	14	33
SURFACE MEAPONS CENTER	308.606	149,335	213,932	97.873	125	4607	w	23.1	61	2117
UNDERSEA RAMGES DEPARTMENT	32,621	22.800	25.028	21.828	44	88	0	-	သ	56
UNDERWATER SYSTEMS CENTER	288,435	113.554	133,843	56.111	ò	1012	-4	9	56	1397
WEAPONS CENTER	283.951	151,279	181-390	102,713	58.3	3957	0	123	60	1387
YOTALS	1910.22	1033.123	1296 • 203	722,643	2324	23850	147 1650	0591	617	11167

TABLE 44. NAVY RED FACILITIES DATA, FY 1979

		ç	SPACE AND PROPERTY	SPACE AND PROPERTY	00 00011	COST (RILLIUMS \$)	LIUNS 51
1		2	ACC 117003A	1026 10 500	יאט שננו ו	4	
INSTALLATION						REAL	
		ACRES	ACRES LABORATORY	AOHIN	OTHER	PROPERTY	FOULDMENT
AERUSPACE MEDICAL KESEAKCH LAJORATURY	PENSICOLA, FL.	9	172.546	11.768	9.400	3,130	4.033
AIR DEVELOPMENT CENTER	JOHN VILLE, PA.	840	825.000	83.000	654.000	33.000	51.754
ARCTIC RESEARCH LABURATORY	BARRIW AK.	4987	47.310	15.987	368.049	13, 158	1.675
HIDSCIENCES LABURATORY	DAKLI ND.CA.	v	77.625	8.731	34.645	1.800	5.400
CIVIL ENGINEERING LABURATORY	PORT HUENEME,CA.	30	81.340	71.748	44.158	7,293	3.429
CLOTHING & TEXTILE RESEARCH FACILITY	NAT.CK,MA.	-	10.000	7.000	3.000	0.40	0.975
COASTAL SYSTEMS CENTER	PAMAMA CITY, EL.	999	346.019	38-150	247.230	33,214	17.280
UAVIU M. TAYLOR SHIP AGU CENTER	BETHES DA, MO.	324	1709.038	102,847	245.252	70.90	68.88
DENTAL RESEARCH INSTITUTE, NTC	GREAT LAKES, IL.	C	13.919	6.923	15.714	°.80	0.578
ENVIRONMENTAL PREDICTION RESEARCH FACILITY	MONTEREY, CA.	0	1.362	4.858	10.594	0.00°	0, 483
HEALTH RESEARCH CENTER	SAN DIEGO,CA.	7	11.177	4.500	0.00	2.000	0.613
MEDICAL RESEARCH INSTITUTE	BETHESDA, MD.	4	145.868	6.400	40.299	7.000	9.033
MEDICAL RESEARCH UNIT NU.2	MANILA, PHIL IPPINES	0	10.370	3.500	0090	0.00	C-607
MEDICAL RESEARCH UNIT NO.3	CAIRU, EGYPT	5	41.068	8.962	55.350	1.43	0.136
UCEAN K & D ACTIVITY	BAY ST.LOUIS,MS.	ľ	63.976	18.9≎0	25.734	9.000	2.000
UCEAN SYSTEMS CANTER	SAN UIEGO,CA.	3847	1162.394	205.889	163.233	39.507	130.640
PERSUNNEL RESEARCH & MEVELOPMENT CENTER	SAN DIEGO,CA.	-	63.580	7.630	0000	0.485	2,350
RESEARCH LABORATURY	WASHINGTON, D.C.	198	2312.917	192.677	479.359	97.868	100,225
SUBMARINE MEDICAL RESEARCH LABURATURY	GROTON,CT.	-	40.514	14.090	0.00	1.105	1,806
SURFACE MEAPONS CENTER	SILVFR SPRING, MU.	5380	1656.578	175.258	1285.183	90.€74	65.325
UNDERSEA RANGES DEPARTMENT	NEWPORT, RI.	1042	.75.603	17.339	304.964	24.182	1.305
UNDERWATER SYSTEMS CENTER	NEWPURT, KI.	367	1059.983	241.839	581.567	45.978	53.078
MEAPONS CENTER	CHINA LAKE, CA.	1127016	1155.058	400.259	5120.635	226.915	98.172
TUTALS		1145326	11083-745	1650,364	750.5896	004-669	644.986
				1			1 1

TABLE 54. AIR FURCE 920 LABORATURIES, PROGRAM AND PERSONNEL DATA, FY 1979

		PROF	713	213		\$	801	427	:	77,	443	<	,	717	144	239		2	592	0	240	2	3670	
¥	;	PROF) 1 1	32	,	0	851	1 28	4 6		115	7		*	4	47		•	109	109	80)	2070	
EL DA		_	_	_																	4		470 2	
PERSONNEL DATA	ć	2	M L	m	*	3 2	20	6 0	ĸ	` =	11	17	٢	•	77	c o	•	J 1	-	57	56		782	
9	101	10.0	<u>د</u>	383	154	111	1.43	*		12.5	77,	٥	807		26.7	9.50	256) (1601	273	404		8603	
	7.77.4		¥	15	135	****	0 (0 1	6	0	0.4	42	120		177	54	176	1	7 1 1	393	479		7962	
ONS \$)	TANDICE		1.0 K	14.037	6.561	147	00100	700407	0.301	34.597		0.039	26,000	6 077		150041	11,166	27.076		10.003	53,005		340.218	
DATA (MILLIONS S)	TUTAL	ROTER		90.510	15.297	377.980	120.502	700000	6.173	93.702	967	0.000	51,065	22-477		65.564	36.145	159.571	16 724	10.00	178.185		1246.258	
FUNDING 1	TOTAL	SYLCUSE.	400	(70.07	196.9	231,403	31.401		1.768	37.894	1.258	2711	30.143	10.728	14.745	1	13.468	27.201	15.823		64.683		168**05	
		TOTAL	907,108	1 1 1 1 1	162.61	1248,527	143,291	7.57		91.179	1.258		901.09	26.163	91.157	1 1 1	154.25	206,564	22,504	100 043	107,000		2240-101	
		A FBI DOIDGE CYON . ADVIOLETING	ACCOUNT TASKS TORY	AEKUSPACE MEDICAL RESEARCH LABURATORY	ARMAMENT DIVISION	AVIONICS I ARIO TOPO		ENGINEERING & SERVICES CNTR / KD	FLIGHT OFNAMICS LABORATURY	FRANK L CHITTE DESCRIPTION	O STATE OF THE PROPERTY OF THE	GEUPHISICS LABURATURY	ACMAN RESOLUCION PARCOLITICA	MATERIAL CONTRACTOR		KUCKET PROPUCSION LABORATING Y	KOME AIK DEVELOPMENT CENTED	VOHON PERSONNEL STATEMENT OF THE STATEME	DESCRIPTION OF THE PROPERTY OF	HEAPONS LABORATORY		4 -	0. ACS	

TABLE 64. AIR FORCE RED FACILITIES DATA, FY 1979

		SP	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)	ND PROPERT	Y Are Feet)	COST (MI	COST (MILLIONS \$)
INSTALLATION						RFA	
		ACRES I	ACRES LABORATORY	ADHIN	OTHER	PROPERTY	E OUT DAKENT
AERO FROPULSTON LABORATURY	MPAF6,04.	0,4	229.490	41.784	105,665	56.100	102 120
AERUSPACE MEDICAL RESEARCH LABORATURY	WPAFS, OH.	30	73.614	5.247	87.764	21.200	25.056
ARMAMENT DIVISION	EGLIN AFB,FL.	464219	320.295	976.427	10639,000	207.12	167.72
AVIUNICS LABORATURY	WPAFB, OH.	62.0	250,901	8.775	412.829	24.040	477 67
ENGINEERING & SERVICES CNTR / RU	TYNDALL AFR.FL.		190.4		670071	600.42	00+-00
FLIGHT DVNAMTON LABOUR TODA		,	7060	204.5	T. 1 . 6	1.600	1.202
TOTAL CONTRACTOR OF THE CONTRA	・よりものより	26	518.859	5.408	143,317	26.186	50.516
CONTROLL OF LEEK AND AND LABORAGES	USAE ACADEMY, CO.		19.003	1000.000	0000	1.722	1,689
これのような におのの表入しに大	HANSEOM AFBINA.	368	391.903	15.006	25.883	9.717	29.700
KINAN KESUUKCES LABUKATORY	BAGGKS AFB, TX.	13	76.369	49.759	54.680	5.487	33,182
MILLEKIALS LABORATURY	WPAFB, OH.	15	228 • 809	39,681	157,009	23.244	17.041
KUCKEI PRUPULSIUN LABURATURY	EDWAPDS AFB,CA.	68345	419.046	86.848	4.780	125.000	74.44
KOME AIR DEVELOPMENT CENTER	GRIFFISS AFS,N.Y.	1517	772.193	87-767	168.762	30.251	2000
SCHUUL UF AEROSPACE MEDICINE	BROOKS AFB, TX.	74	363.855	77.980	53.176	17 581	20,000
WEAVUNS LABORATURY	KIRTLAND AFS, N.A.	702	553.823	105,574	125,118	74.77	101.07
		1			0110731	100.07	07.473
TOTALS		535648	4223.141	2502.656	11947,734	708-819	752.859

TASLE 74. DEPARTMENT OF DEFENSE ROTGE FACILITIES DATA, FY 1979

			SPACE AN	SPACE AND PROPERTY	: FEET)	COSI (HT	COST (MICLIONS 4)
		SPAC	E (IMUUSAN	TO CO		REAL	•
INSTALLATION		ACRES LA	CRES LABORATORY	ADMIN	OTHER EA 824	PROPERTY 7-911	PROPERTY EQUIPMENT 7.911 5.532
CONTRACTOR DESTRUCTION OF ASCHAINSTANTE	BETHESDA, MD.	01	42,335	£1.047	10000		
ARMED FURGES RADIOSTACOS RECOMENS		•	970.10		36.834	7.911	7,911 5,532
TOTALS		10	CEC*74		•		

TABLE 8 - ARMY RESEARCH AND DEVELOPMENT LABORATORY ORGANIZATIONAL RELATIONSHIPS

	INTERMEDIATE	CONTMAND
AEROMEDICAL RESEARCH LABORATORY	MEDICAL R&D COMMAND	THE SURGEON GENERAL
ATMOSPHERIC SCIENCES LABORATORY	ELECTRONICS R&D CMD	MAT DEV & READ CMD
AVIATION R&T LABORATORY	AVIATION R&D COMMAND	MAT DEV & READ CMD
AVIONICS R&D ACTIVITY	AVIATION R&D COMMAND	MAT DEV & READ CMD
BALLISTIC RESEARCH LABORATGRY	ARMAMENT R&D COMMAND	MAT DEV & READ CMD
BIOMEDICAL LABORATORY	MEDICAL R&D COMMAND	THE SURGEON GENERAL
CHEMICAL SYSTEMS LABORATORY	ARMAMENT R&D COMMAND	MAT DEV & READ CMD
COLD REGIONS R&E LABORATORY	1	CHIEF OF ENGINEERS
COMBAT SURVEILLANCE & TARGET ACQUISITION LABS	ELECTRONICS RAD COMMAND	MAT DEV & READ CMD
COMMUNICATIONS R&D COMMAND	1	MAT DEV & READ CMD
CONSTRUCTION ENGINEERING RSCH LABORATORY	!	CHIEF OF ENGINEERS
ELECTRONIC WARFARE LABORATORY	ELECTRONICS R&D COMMAND	MAT DEV & READ CMD
ELECTRONICS TECHNOLOGY & DEVICES LABORATORY	ELECTRONICS R&D COMMAND	MAT DEV & READ CMD
ENGINEER TOPOGRAPHIC LABORATORIES	1	CHIEF OF ENGINEERS
ENGINEER WATERWAYS EXPERIMENT STATION	!	CHIEF OF ENGINEERS
FIRE CONTROL & SMALL CALIBER WPNS SYSTEMS LAB	ARMAMENT R&D COMMAND	MAT DEV & READ CMD
HARRY DIAMOND LABORATORIES	ELECTRONICS R&D COMMAND	MAT DEV & READ CMD
HUMAN ENGINEERING LABORATORY	. 1	MAT DEV & READ CMD
INSTITUTE OF DENTAL RESEARCH	MEDICAL R&D COMMAND	THE SURGEON GENERAL
INSTITUTE OF SURGICAL RESEARCH	MEDICAL R&D COMMAND	
LARGE CALIBER WEAPONS SYSTEMS LABORATORY	ARMAMENT R&D COMMAND	MAT DEV & READ CMD
LETTERMAN ARMY INSTITUTE OF RESEARCH	MEDICAL R&D COMMAND	THE SURGEON GENERAL
MATERIALS AND MECHANICS RESEARCH CENTER	!	MAT DEV & READ CMD
MEDICAL BIOENGINEERING R&D LABORATORY	MEDICAL R&D COMMAND	THE SURGEON GENERAL
MEDICAL R&D COMMAND	!	THE SURGEON GENERAL
MEDICAL RESEARCH INST OF INFECTIOUS DISEASES	MEDICAL R&D COMMAND	THE SURGEON GENERAL
MISSILE R&D COMMAND	-	DEV & READ
MOBILITY EQUIPMENT R&D COMMAND		DEV & READ
NATICK R&D COMMAND	!	DEV & READ
NIGHT VISION & ELECTRO-OPTICS LABORATORY	ELECTRONICS R&D COMMAND	MAT DEV & READ CMD

Table 8 · ARMY RESEARCH AND DEVELOPMENT LABORATORY ORGANIZATIONAL RELATIONSHIPS

COMMAND	DEPUTY CHIEF OF STAFF FOR PERSONNEL	THE SURGEON GENERAL MAT DEV & READ CMD MAT DEV & READ CMD	THE SURGEON GENERAL
INTERMEDIATE	1	MEDICAL R&D COMMAND ELECTRONICS R&D CMD	MEDICAL RED COMMAND
	RES INST FOR BEHAVIORAL & SOCIAL SCIENCES	RESEARCH INSTITUTE OF ENVIRONMENTAL MEDICINE SIGNALS WARFARE LABORATORY	TANK-AUTOMGTIVE R&D COMMAND WALTER REED ARMY INSTITUTE OF RESEARCH

- NAVY RESEARCH AND DEVELOPMENT LABORATORY ORGANIZATIONAL RELATIONSHIFS TABLE 9

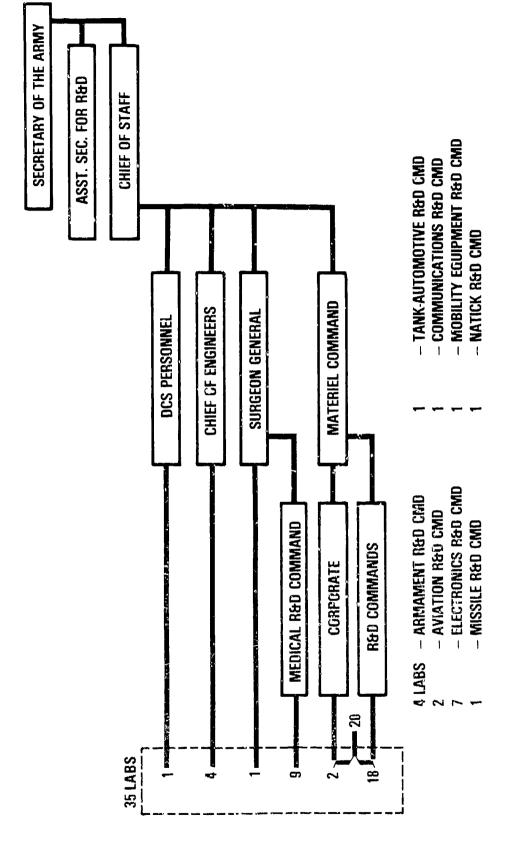
CAL RESEARCH LABORATORY T CENTER T CENTER H LABC" * TORY BORATORY		INTERMEDIATE	COMMAND
RY RCH FACILITY SUPPLY SYS COMMAND SUPPLY SYS COMMAND ENTER NTC AIR SYSTEMS COMMAND AIR SYSTEMS COMMAND MEDICAL R&D COMMAND LABORATORY MEDICAL R&D COMMAND	SPACE MEDICAL RESEARCH LABORATORY	MEDICAL R&D COMMAND	CHIEF, BUR OF MED/SUR
RY RCH FACILITY SUPPLY SYS COMMAND SUPPLY SYS COMMAND ENTER MEDICAL R&D COMMAND AIR SYSTEMS COMMAND MEDICAL R&D COMMAND LABORATORY MEDICAL R&D COMMAND	DEVELOPMENT CENTER	!	CHIEF OF NAVAL MATERIAL
RY RCH FACILITY SUPPLY SYS COMMAND ENTER NTC MEDICAL R&D COMMAND AIR SYSTEMS COMMAND MEDICAL R&D COMMAND IABORATORY MEDICAL R&D COMMAND	TC RESEARCH LABCD TORY	1	CHIEF OF NAVAL RESEARCH
RY RCH FACILITY SUPPLY SYS COMMAND ENTER NTC AIR SYSTEMS COMMAND AIR SYSTEMS COMMAND MEDICAL R&D COMMAND LABORATORY MEDICAL R&D COMMAND LABORATORY MEDICAL R&D COMMAND	SCIENCES LABORATORY	ŀ	CHIEF OF NAVAL RESEARCH
ENTER ENTER MEDICAL R&D COMMAND AIR SYSTEMS COMMAND AIR SYSTEMS COMMAND MEDICAL R&D COMM	IL ENGINEERING LABORATORY	FAC ENG COMMAND	CHIEF OF NAVAL MATERIAL
ENTER MEDICAL R&D COMMAND AIR SYSTEMS COMMAND AIR SYSTEMS COMMAND MEDICAL R&D COMMAND LABORATORY MEDICAL R&D COMMAND LABORATORY MEDICAL R&D COMMAND In MEDICAL R&D COMMAND IN MEDICAL R&D COMMAND IN MEDICAL R&D COM		SUPPLY SYS COMMAND	CHIEF OF NAVAL MATERIAL
ENTER NTC NTC AIR SYSTEMS COMMAND AIR SYSTEMS COMMAND MEDICAL R&D COMMAND ————— LABORATORY MEDICAL R&D COMMAND ———————————————————————————————————		-	CHIEF OF NAVAL MATERIAL
NTC MEDICAL R&D COMMAND AIR SYSTEMS COMMAND AEDICAL R&D COMMAND MEDICAL R&D COMMAND MEDICAL R&D COMMAND MEDICAL R&D COMMAND MEDICAL R&D COMMAND ———————————————————————————————————	ID W. TAYLOR SHIP R&D CENTER	1	CHIEF OF NAVAL MATERIAL
ESEARCH FACILITY MEDICAL R&D COMMAND ———————————————————————————————————	fal research institute, ntc	MEDICAL R&D COMMAND	CHIEF, BUR OF MED/SUR
MEDICAL R&D COMMAND MEDICAL R&D COUTAND MEDICAL R&D COUTAND MEDICAL R&D COMMAND CABORATORY MEDICAL R&D COMMAND LABORATORY MEDICAL R&D COMMAND T	IRONMENTAL PREDICTION RESEARCH FACILITY	AIR SYSTEMS COMMAND	CHIEF OF NAVAL MATERIAL
MEDICAL R&D COPMAND MEDICAL R&D COMMAND MEDICAL R&D COMMAND ———————————————————————————————————	LIH RESEARCH CENTER		CHIEF, BUR OF MED/SUR
2 MEDICAL R&D COMMAND 3 MEDICAL R&D COMMAND	ICAL RESEARCH INSTITUTE		CHIEF, BUR OF MED/SUR
3 MEDICAL RED CGMMAND	ICAL RESEARCH UNIT NO. 2		CHIEF, BUR OF MED/SUR
 MEDICAL R&D COMMAND 	CAL RESEARCH UNIT NO. 3		CHIEF, BUR OF MED/SUR
ER	AN R&D ACTIVITY	}	CHIEF OF NAVAL RESEARCH
ER	AN SYSTEMS CENTER	1	CHIEF OF NAVAL MATERIAL
	SONNEL RESEARCH & DEVELOPMENT CENTER	1	CHIEF OF NAVAL MATERIAL
	EARCH LABORATORY	1	CHIEF OF NAVAL RESEARCH
TMEN T TER	MARINE MEDICAL RESEARCH LABORATORY	MEDICAL RED COMMAND	CHIEF, BUR OF MED/SUR
ES DEPARTMENT TEMS CENTER	ACE WEAPONS CENTER	-	CHIEF OF NAVAL MATERIAL
TEMS CENTER	ERSEAS RANGES DEPARTMENT	}	CHIEF OF NAVAL MATERIAL
	ERWATER SYSTEMS CENTER	}	CHIEF OF NAVAL MATERIAL
	WEAPONS CENTER	1	CHIEF OF NAVAL MATERIAL

TABLE 10 AIR FORCE RESEARCH AND DEVELOPMENT LABORATORY ORGANIZATIONAL RELATIONSHIPS

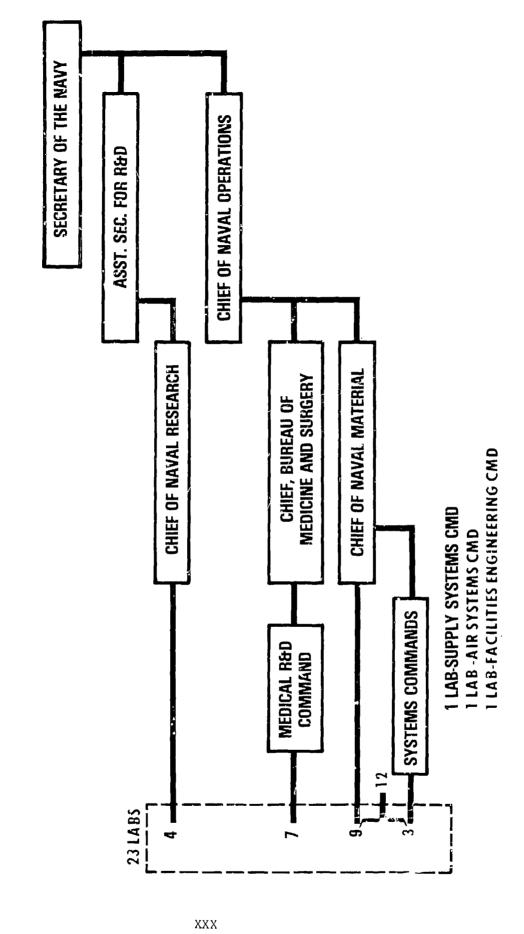
	INTERMEDIATE	COMMAND
AEROPROPULSION LABORATORY AEROSPACE MEDICAL RESEARCH LABORATORY *ARMAMENT LABORATORY AVICNICS LABORATORY ENGINEERING SERVICES CENTER/RD FLIGHT DYNAMICS LABORATORY FRANK J. SEILER RESEARCH LABORATORY GEOPHYSICS LABORATORY HUMAN FESOURCES LABORATORY MATERIALS LABORATORY ROCKET PROPULSION LABORATORY ROCKET PROPULSION LABORATORY SCHOOL OF AEROSPACE MEDICINE WEAPONS LABORATORY	WRIGHT AERONAUTICAL LABS ARMAMENT DIVISION WRIGHT AERONAUTICAL LABS OFFICE OF SCIENTIFIC PES WRIGHT AERONAUTICAL LABS WRIGHT AERONAUTICAL LABS WRIGHT AERONAUTICAL LABS WRIGHT AERONAUTICAL LABS ELECTRONIC SYSTEMS DIVISION AEROSPAGE MEDICAL DIVISION	AF SYSTEMS COMMAND AF SYSTEMS COMMAND AF SYSTEMS COMMAND HQ US AIR FORCE AF SYSTEMS COMMAND

⁽See Armament Division which * Laboratory portion not reported separately in this report. includes Armament Laboratory)

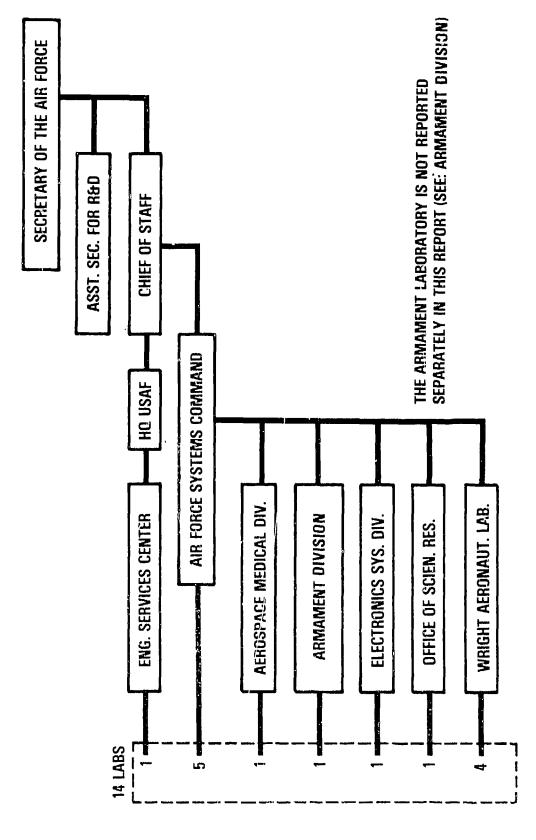
ARMY LABORATORIES COMMAND CHAIN



NAVY LABORATORIES COMMAND CHAIN



AIR FORCE LABORATORIES COMMAND CHAIN



COR.COL. STANLEY C. KNAPP

	PR(JGRAM DAT	A BY FISCA	L YEAR (MILLI	ON \$)
PRUGRAM			1979	1480	
		(A	CTUAL	(ACT + EST)	
TUTAL RUTER			3.771	3.362	
TUTAL PROCURE	MENT		0.000	0.000	
MAU LATOT			0.029	0.000	
TUTAL OTHER			0.989	0.880	
TUTAL ANNUAL	LAB		4.789	4.242	
TUTAL INHUUSE			4.177	3.825	
TUTAL INHUUSE	RUTLE		3.159	2.945	
ANNUAL UPERAT	ING CUST		1.410	1,585	
	PERSONNI	L DATA	(END OF FY	1979)	
PERSUNNEL	AUTHUR1ZED		TOTAL	TOTAL	NUN-
	STRENGTH		PHUS	PROF	PROF
MILITARY	77		11	27	50
CIVILIAN	65		4	21	44
TUTAL	142		15	48	Ģ 4
		SPACE AN	U PKOPERTY		
ACRES	SPACE (THU	JSANDS OF	SQUARE FE	ET) GU	IST (MILLION \$)
	LAB	AUMIN	UTHER	TUTAL KE	AL PROP EQUIP
10	52.747	7.747	21.884		0.84 7.667

...MISSIUN
CUT FUND MTL/APPLD RSCH ON MED ASPECTS OF AAVN, ABREGND OPNS
PERF MED RSCH UN VIS/AUD FUNC; MAN/MACH INTEGRATION
MED ASPECTS OF NUMBED MAT; PHYSIU/PSYCHU RSPNS TO UPNL ENVMNTS
MIL UPNL TNG IMPACTS UPON ECOLOGY. PRIME DOD CONSULT IN ALL AREAS.

... CURKENT IMPURTANT PROGRAMS

では、100mmには、1

MEDICAL HAZARD ASSESSMENT OF MAJUR WEAPON SYSTEMS
RSCH AND DEV OR MED FACTORS INFLUENCING VEH AND WEAPONS CREW PERFORMANCE
RSCH OF VIS AND PSYCHOACOUSTICAL FACTORS OF MED IMPORT TO ARMY CBT SYS
DIRECT APPLIED RSCH AND DEV TO SPT TO ARMY AVN
FUNDAMENTAL BIOMED RSCH AND DEV TO ESTB EQUIP FNVMNT AND TASK DESIG CRIT

... FUNCTIONS/EQUIPMENT/CAPABILITIES

ANECHOIC CHAMBER; COLORIMETER; ECGGEEG MACH, AUTOANALYZER; MASS SPECTRO; 3 DEGREE FREEDOM QLOSEJ-LOOP SERVOHYDRAULIC HEL SEAT MNTU SIMULATOR; SEQ HULTI ANALYZER-CUMPUTERIZED; SIMUHIMS (HELSIMULATOR); HYBRID CPMT SYSCSEL-8500 DIGITAL MAINERAME; SAI-681 ANALOG MAINERAME; SAI-693 COMM INTERFACE; IMLAC PDS-10 DISPLAY PROCESSOR); FAST FOURIER SOUND ANALYZER; PHOTOMETRY LAB W/AUTOMATIC CIE ANAL RAPID SCAN SPECTRUMETER TP CEABLE TO BU OF STOS DRUP TOWER FOR ANSI EVAL OF HEL SYS; THREE AXES PEGASUS MAN-KATED VIB PLATFORM W/HARDWIRE CMPT CONT/ANAL SYS CAPABLE OF MOVING 600LB LOAD 0-50 W/2DS ERRUK; HEMISPHERE W/SENSORS TO DETM HEAD PNTING CAPABILITY FOR USE 1N CONJ WITH/VIB PLATFORM FOR DYNAMIC STUDIES; EMERG PHYSICIAN CALL SYS (10 MILE RADIOS); ELECTRON MICROSCOPES(2EA); AUTOMATED TISSUE FIXATION SYS; ABN EQUIP; BIOCHEM LAB; ELECTRONICSENGR FAB SHOP; EPHOTO LAB.

PRES.CUL. JAMEC C. CRUSBY

TECH-AUV-MR. CHARLES E. FRENCH

UGRAM DATA BY FISCA	L YEAR (MILLION S)
1979	1980
(ACTUAL)	(ACT + FST)
3.495	4.056
1.662	1.921
0.270	0.464
2.183	2.284
7.610	8,725
7.118	7.686
3.151	3.319
0.335	V.379
	1979 (ACTUAL) 3.495 1.662 0.270 2.183 7.610 7.118 3.151

	PERSÜNNEL DATA	(END OF FY	1979)	
PERSONNEL	AUTHUR1ZED	TOTAL	TOTAL	NON-
	STRENGTH	PHDS	PROF	PROF
MILITARY	117	0	22	95
CIVILIAN	86	v	14	72
TOTAL	203	0	36	167

		SPACE AN	D PRUPERTY			
ACRES	SPACE (THU	JUSANUS OF	SQUARE FFE	T)	CUST (MILL	10N \$)
	LAB	NIMOA	OTHER	TOTAL	REAL PROP	EUUIP
26	35.530	30.320	19.132	90.988	1.26	9.855

...MISSIUN

PLAN, CUNDUCT AND REPT ON OT I, II, AND IIA AS ROR, AND OTHER USER-TYPE TESTS OF AD MPN SYS, FIRE DISTR SYS, ECM AND ECCM EQUIP AND DEVICES AND TOT DEVICES. MUNITUR AND PARTICIPATE IN DT I AND OT II AND CONDUCT OTHER TESTS AND EVAL AS DIR BY CG, USA TRADOC AND CG, USAADCENFB.

...CURRENT IMPORTANT PRUGRAMS STINGER-POST CCMV LUMAD AFU DIVAD GUN OT 11 PATRIOT OT 11 ADD-UN ROLAND RELIABILITY DEMO

...FUNCTIONS/EQUIPMENT/CAPABILITIES

EQUIPMENT: MULTIPLE TGT TRACKING SYS PROVIDES DATA FROM AIR GROUND TGTS, TWO LASEK TRACKING SYS TO BE UPER BY JAN 81 WILL PROVIDE DATA FROM COUPERATIVE TGTS, INSTRINADAR SYS THAT PROVIDES HIGH ACCORACY, TWO NIKEHERL FIRE CON SYS USED AS INSTRINADARS MATED TO RADAR DATA RECORDERS, A RNG TIMING SYS TO PROVIDE A TIME BASE FOR ALL INSTRINY, TECH PHOTO LABER FOR REQUIRED DATA, RICS PROVIDES NEAR REAL TIME DATA OUTPUTS. FACILITIES AT FT BLISS: BLDG 1056 HUUSES RICS, RNG TIMING SYS, DATA PREPARATION, ELECTRONIC CAL & FABRICATION LAB, MACH & CARPENTER SHOPS, MICROWAVE TERM THAT PROVIDES DATA & COMMULINK TO RANGES; BLDG 1658 — PHOTOGRAPHIC LAB; DUNA ANA, MCGREGUR, NURTH MCGREGOR RANGES FOR FIRING FURWARD AREA WEAPON AT AIR OR GROUND TARGETS. SITE MONITOR FOR ELECTRONICS TESTING OF EQUIP.

FT.BRAGG.N.C.

INSTALLATION: AIRBORNE BOARD

PRES. CUL. G.G. THUMAS, JR.

ENGR.ADV.MR. GEURGE G. GORE

	PROGRAM DA		YEAR (MILLION	s)
PRUGRAM		1979	1480	
	(ACTUAL)	(ACT + EST)	
TOTAL RDIGE		1.427	1.126	
TUTAL PRUCURE	MENT	0.299	0.500	
TOTAL UEM		0.126	0.184	
TUTAL UTHER		1.138	1.000	
TUTAL ANNUAL	LAB	2.990	2.810	
TUTAL INHOUSE		2.990	2.810	
TUTAL INHUUSE		1.427	1.126	
ANNJAL UPERAT		1.000	1.000	
	PERSUNNEL DATA	(ENU IT FY	1979)	
PERSONNEL	AUTHURIZED	IUTAL	TOTAL	NUN-
	STRENGTH	PHOS	PRITE	PROF
MILITARY	87	Ü	17	70
CIVILIAN	40	Ö	4	36
TUTAL	127	U	21	106
	SPACE A	NO PROPERTY		

		SPACE AN	D PRUPERTY			
ACRES	SPACE (THU	USANDS OF	SQUARE FEET	Γ)	COST (MILL	IUN 5)
	LAB	ADMIN	UTHER	TOTAL	REAL PRUP	FUUIP
27	3.978	3.914	39.390	47.282	0.97	4.026

...MISSION
THE MISSION OF THE ABN BD IS TO PLAN, CONDUCT AND REPORT ON OT I & II,
FOTE AND OTHER USER TYPE TESTS OF AIRBORNE ITEMS; PARTICIPATE IN DT I,
II & III AS DIRECTED; PROVIDE ADVICE AND GUIDANCE ON TEST AND EVALUATION
MATTERS. CONDUCT SPECIAL TESTS & EVALUATIONS AS DIRECTED.

...CURKENT IMPURTANT PROGRAMS
LUW ALTITUDE PARACHUTE EXTRACTION SYSTEM
STANDARD AIRDRUP OF SELECTED ITEMS OF EQUIPMENT
EXTERNAL AIR TRANSPORTABILITY
C-1418 AIRCRAFT TEST PROGRAM
FAMILY OF HELICOPTER EXTERNAL SLINGS

S, METER CALIBRATORS, MEGOHMMETER.

****FUNCTIONS/EQUIPMENT/CAPABILITIES
FACILITIES INCLUDE: MAIN DEC BLDG, ABM HANGAR, INSTRUMENTATION/DESIGN
INTERFACING SECTION, COMBINED SHOP & ADP FACILITY. MAJOR EQUIPMENT INULUDES: LIGHTWEIGHT OPTICAL TRACKING SYSTEM, 25-TON CRANE, 2 20-TON
MOBILE CRANES, 5-TON WRECKER, 40,000 LB ACFT LOADER, THREE T-28B ACFT, 1
UH-IH HELICOPTER, VARIOUS TYPES OF STANDARD PARACHUTES, NINE CASOLINE
GENERATORS, DIGITAL THEODOLITES, ELECTRONIC DIAGNOSTIC EQUIPMENT, VOLTMETERS, AMMETERS, SPECIRUM ANALYZERS, SOUND & VIBRATION ANALYZERS, TIME
MAKK GENERATORS, OSCILLOSCOPES, MULTIMETERS, RANDOM NOISE GENERATORS,
POWER SUPPLIES, Q METERS, ATTENUATORS, GRAPHIC LEVEL RECORDERS, 16 MM
CAMERAS, FILM ANALYZERS, PORTABLE VIDEO EQUIPMENT, VAN METER, ANALOG
TAPE RECORDER, GRAPHIC LEVEL, FREQUENCY COUNTURS, SOUND LEVEL CALIBRATOR

PRESICUL. JIMMY L. PIGG

CIV.SCI.ADV.MR. WARREN W. WELLS

	PROGRAM DA	TA BY FISCA	L YEAR (MILLIUN	\$1
PROGRAM		1979	1980	
	(AC (UAL)	(ACT + EST)	
TUTAL KUTER		6.553	14.526	
TUTAL RUCURE	MENT	0.596	0.560	
TUTAL ULM		0.288	0.600	
TOTAL OTHER		3.311	3.399	
TOTAL ANNUAL	LAB	10.748	19.085	
TUTAL INHUUSE	•	10.748	19.085	
TUTAL INHOUSE	RDT&E	6.553	14.526	
ANNUAL JPERAT	ING COST	0.564	0.590	
	PERSUNNEL DATA	(END OF FY	1979)	
よらないいろとに	AUTHURIZED	TUTAL	TOTAL	NON
	STRENGTH	PHDS	PRUF	PRO
M. C. TTADM				1 110

L CV2DMMET	AUTHURIZEU	TUTAL	TOTAL	NUN-
	STRENGTH	PHD\$	PROF	PROF
MILITARV	227	Ú	107	120
CIVILIAN	102	2	18	84
TUTAL	329	2	125	204

		SPACE AN	D PROPERTY	!		
ACRES	SPACE (THOUSANDS OF SQUARE FEET)				COST (MILLION \$)	
	LAB	AUMIN	UTHER	TOTAL	REAL PROP	EQUIP
2	63.365	5U-454	88.069	201.888	1.45	2.410

...MISSIUN

PLAN, CUNDUCT & REPORT OF 1,11,111, FOTE, CEP, TEA & OTHER USER TESTS OF ARVENGR EQ. PARTICIPATE IN UTI, II, III & SP STUDY OF CML EQ. PROVIDE GUIDANCE & ADVICE TO DEVELOPERS, PRODUCERS, OTHER SVCS & PRIVATE INDUSTRY. PLAN, COURDINATE, MANAGE & REPORT ON ACVIP. PROVIDE ADM, LOGIS & OPNS SPT TO DCD.

...CURRENT IMPORTANT PROGRAMS
COMBAT VEHICLE TECHNOLOGY PROGRAM
SURFACE LAUNCHED FUEL AIR EXPLOSIVE
GROUND EMPLACED MINE SCATTERING SYSTEM
XM-1 TANK EXTENDED MSED DURABILITY/RELIABILITY TEST
MUDULAR MACK MINE SYSTEM (MOPMS)

... FUNCTIONS/EQUIPMENT/CAPABILITIES

REMUTE CONTROLLED, VARIABLE SPEED, RELOCATABLE MOVING TARGET(MT); REMUTE CUNTROLLED, HIT INDICATING, RELOCATABLE STATIONARY TARGET(ST); TARGET SPUTTING SYSTEM (TSS); GUN CAMERA, SINGLE FRAME — 35MM CINE — 16 MM(GC); VIDED AUTUMATIC TARGET TRACKING SYSTEM(VATTS); SIMPLIRE HIT—KILL INDICATR; POSITION LUCATION SYSTEM (MMRIII); MULTIMODE EVASIVE TARGET SYSTEM; TANK VIDED SYSTEM; RANGE TIMING EQUIPMENT; TELEMETRY EQUIPMENT; 16MM MOTION PICTURE CAMERA WITH DATADOORS; THRU—TANX—OPTICS VIDEO DEVICE; GUN ELEVATION LIMITING DEVICE; SLR CAMERA; AUTOMATIC FILM ANALYZER & DIGITZR SYSTEM; DATA ANALYSIS AND RECORDING SUBSYSTEM.

INSTALLATION: ARMY RESEARCH OFFICE

DURHAM, N.C.

CUR.COL. ANTHONY P SIMKUS

TECH-DIR.OR.HERMAN KOBL

	PROGRAM	DATA BY FISCAL	L YEAR (MILLION	\$)
PROGRAM		1979	1990	
		(ACTUAL)	(ACT + EST)	
TOTAL KUTEE		38.692	44.814	
TOTAL PROCUREME	NT	0.000	0.000	
TUTAL DEM		0.000	0.000	
TOTAL UTHER		0.082	0.082	
TUTAL ANNUAL LA	.5	38.774	44.896	
TUTAL INHOUSE		0.082	0.082	
TOTAL INHOUSE R	DT&E	0.000	0.000	
ANNUAL UPERATING CUST		3.208	4.384	
	PERSONNEL UA	TA (END OF FY	1979)	
PERSUNNEL	AUTHURIZED	TOTAL	TOTAL	NON-
	STRENGTH	PHDS	PRUF	PROF
MILITARY	22	Ü	2	' o
CIVILIAN	94	3	34 60	
TUTAL	96	33	36	6 Ú
	SPAC	E AND PROPERTY		•
ACRES	SPACE (THOUSAND	S OF SHUARE FE	ET) CUST	(MILLION \$)
	LAB ADM	IN OTHER	TOTAL REAL	PROP EQUIP
0	0.000 23.4	40 0.000	23 • 440	0.00 0.350

...MISSION

TO MANAGE THAT PORTION OF THE ARMYS RSCH PROG RELEVANT TO ARMY MSNS IN MATH AND THE PHYS, ENGR, ENVIRONMENTAL AND LIFE SCIS ACCOMP THROUGH CONTR AND GRANTS WITH EDUC INSTITS, RSCH INSTITS AND GOVT AND INDUS LAB AND TO REPRESENT THE RESEARCH INTERESTS OF THE ARMY OVERSEAS

...CURRENT IMPORTANT PROGRAMS
DEVELUPE AND MANAGE THE ARMY BASIC RESEARCH PROGRAMS
CULLECT, ANALYZE AND EVALUATE BASIC RESEARCH RESULTS
ESTABLISH AND MAINTAIN LIAISON WITH ARMY DEVELOPMENT AGENCIES

...FUNCTIONS/EQUIPMENT/CAPABILITIES
ADMINISTRATION OF RESEARCH PROGRAMS IN PHYSICAL SCIENCES
MATHEMATICAL, MATERIAL, ELECTRONICS, MECHANICS AND AERONAUTICS.
ADMINISTRATION OF THE RESEARCH PORTION OF ARMY RESEARCH AND
STANDARDIZATION OFFICE, LUNDON, COURDINATES ARMY RESEARCH EFFORTS WITHIN
THE ARMY AND WITH OTHER GOVERNMENT AGENCIES SUCH AS NAVY, NASA, DOD, DOE,
NSF AND OTHERS.

CDR.COL. WILLIAM E. RAWLINSUN DEP.DIR. DR. HENRY RACHELE

	PRUGRAM DATA BY FISCAL	YEAR (MILLION \$)
PRUGRAM	1979	1980
	(ACTUAL)	(ACT < EST)
TOTAL ROTSE	19.632	22.587
TOTAL PROCUREMENT	0.000	0.000
TOTAL OWN	0.032	0.008
TOTAL OTHER	12.242	13.099
TOTAL ANNUAL LAB	31.906	35.694
TOTAL INHOUSE	23.676	24.971
TUTAL INHOUSE ROTEE	11.402	11.864
ANNUAL UPERATING COST	0.804	1.020

	PERSUNNEL DATA	(END UP FY	(1979)	
PERSONNEL	AUTHOR12ED	TUTAL	TUTAL	NUN-
	STRENGTH	PHUS	PROF	PROF
MILITARY	358	0	28	330
CIVILIAN	1.75	22	94	81
TUTAL	533	22	122	411

		SPACE AN	D PRUPEKTY			
ACRES	SPACE (THO	USANOS OF	SHUARE FEET!)	COST (MILL	IÚN \$}
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
45	52.541	26.063	11.409	90.613	7.37	19.377

RESPONSIBLE FOR THAT PURTION OF ERADOUM MISSION DEVOTED TO RESEARCH IN ATMOSPHERIC SCIENCES, DEVELOPMENT OF METEOROLOGICAL TECHNIQUES AND EQUIPMENT FOR FIELD ARMY. FURNISH METEOROLOGICAL SERVICES TO ARMY ROTE ACTIVITIES.

...CURKENT IMPORTANT PROGRAMS
AUTOMATIC ATMOSPHERIC SOUNDING SET AN/TMQ-31
ATMOSPHERIC CHARACTERIZATION
REMUTE ATMOSPHERIC SENSING AND PROBING
ATMOSPHERIC MODELS FOR E-O SYSTEMS
METEOROLOGICAL SUPPORT TO ROTE ACTIVITIES

***FUNCTIONS/EQUIPMENT/CAPABILITIES
METEUROLOGICAL RESEARCH FACILITY AND CAPABILITY
MUBILE ATMUSPHERIC CHARACTERIZATION EQUIPMENT
ATMUSPHERIC PHYSICS RESEARCH FACILITY AND CAPABILITY
UPPER ATMUSPHERE RESEARCH AND SOUNDING ROCKET FACILITY AND CAPABILITY
ION MASS SPECTRUMETER SYSTEM
REMOTE ATMUSPHERIC SENSING FIELD RESEARCH FACILITY
ATMUSPHERIC SPECTROSCUPY — LASER PROPAGATION FACILITY
METEUROLOGICAL ROTE SUPPORT FACILITIES — ALASKA TO CANAL ZONE
METEUROLOGICAL INSTRUMENTATION TEST, MAINTENANCE, CALIBRATION FACILITY
FACILITY FOR SONIC OBSERVATION OF TRAJECTORY AND IMPACT OF MISSILES
HIGH ENERGY LASER TEST FACILITY

PRESCUL. RUBERT A. BONIFACIO TECH.ADV. GEORGE E. SLAGLEY

	PRÚGR AM	DATA BY FISCAL	L YEAR (MILLIUN	\$)
PRUGRAM		1979	1080	
		(ACTUAL)	(ACT + EST)	
TOTAL RUTGE		2.446	2.155	
TUTAL PROCURE	MENT	0.156	0.003	
MBU JATOY		0.698	0.081	
TOTAL OTHER		1.482	1.579	
TOTAL ANNUAL	LAB	4.782	3.818	
TOTAL INHUUSE	•	4.782	3.818	
TOTAL INHOUSE	ROTEE	2.446	2.155	
ANNUAL GPERAT	ring cost	1.286	1.333	
	PERSUNNEL DAT	A (END OF FY	1979)	
PERSUNNEL	AUTHURIZED	TUTAL	TOTAL	NUN-
	STRENGTH	PHDS	PROF	PROF
MILITARY	79	O	33	46
A . M	•			

CIVILIAN	36	2	8	28
TUTAL	115		41	74
ACR ES		AND PROPERTY OF SULARE EFFT)	COST	(M) [T(IN \$)

TUTAL LAB AUMIN UTHER REAL PRUP EQUIP Ü 0.000 18.514 12.961 31.475 0.00 0.433

...MISSIUN MISSION; THE CONDUCT OF OPERATIONAL TEST 1, II, III, FOR NON-MAJOR SYS AND OTHER TESTS AS DIRECTED BY HO TRADUC. SPECIFICALLY, THE AVIATION BD DESIGNS AND CONDUCTS TESTING AND EVALUATION OF AVIATION SYSTEMS, SUBSYSTEMS AND ANCILLIARY EQUIPMENT.

... CURRENT IMPORTANT PROGRAMS 1) [263AAN/APR-39(V2) 1]T2 FUNY2BLACK HAWK IUC INTEGRATED AVIUNICS CONTROL SYSTEM (IACS) AN/PV-D NVG AIRCRAFT POWER CONVERTER QUADRANT LASER WARNING RECEIVER

... FUNCTIONS/EQUIPMENT/CAPABILITIES NU MAJ EUP UK FAC.

231

93

324

NON-PROF

198

277

79

33

14

47

CDR.CUL. WILLIAM E. CROUCH, JR. TECH.DIR.DR. JAMES S. KISHI

	PROGRAM DA	TA BY FISCAL	YEAR (MILLION \$)
PRUGRAM		1979	1980
	(ACTUAL)	(ACT + EST)
TUTAL ROTEE		7.128	8.395
TOTAL PRUCURE	MENT	0.125	0.324
M30 JATOT		1.638	1.819
TUTAL UTHER		1.957	2.093
TOTAL ANNUAL	LAB	10.848	12.631
TUTAL INHOUSE		10.848	12.631
TOTAL INHUUSE	ROTGE	7.128	8.395
ANNUAL UPERAT	ING COST	5.104	5.458
	PERSONNEL DATA	(END OF FY	1979)
PERSONNEL	AUTHÜR (ZED	TUTAL	TOTAL
	STRENGTH	PHUS	PROF

ACRES	SPACE (THO		D PROPERTY SQUARE FE		COST (MILL	ION \$)
	LAB	AUMIN	UTHER	TUTAL	REAL PRUP	EUUIP
1196	0.000	39.124	118.026	157-150	1.78	28.753

...MISSION

MILITARY

CIVILIAN

TUTAL

TO PLAN, CONDUCT, EVALUATE, AND REPORT ON THE GOVT. TEST ELEMENTS - GOT-G, ADVT-G, PQT-G, PVT-G, AND TO MUNITOR, EVALUATE AND REPORT ON CONTRACTOR TESTS UNDER SIDTO CONCEPT FOR AIRCRAFT, AIRCRAFT COMPONENTS AND RELATED EQUIPMENT. CONDUCT OTHER TESTS AND EVALUATIONS AS DIRECTED BY TECOM.

...CURRENT IMPORTANT PROGRAMS
AAH DEVELOPMENT TEST PROGRAM.
UH-60A BLACK HAWK DEVELOPMENT TEST PROGRAM.
YCH-47D DEVELOPMENT TEST II PROGRAM.
UH-58C VERIFICATION TEST PROGRAM.
ALG-156 MISSILE APPROACH DETECTOR DEVELOPMENT TEST II PROGRAM.

PLAN, CUNDUCT, RECURD, EVALUATE, AND REPORT RESULTS OF ASSIGNED DEVELOPMENT TESTS AND EVALUATIONS. PARTICIPATE IN AND SUPPORT THE DEVELOPMENT EFFORTS OF THE VARIOUS COMMODITY COMMANDS WITH RESPONSIBILITY FOR THE DEVELOPMENT OF AVIATION AND AVIATION RELATED MATERIEL. MONITOR CONTRACTOR TEST PROGRAMS, DEMONSTRATIONS, IN WHOLE OR IN PART. PERFORM SOLDIER TESTING TO EVALUATE HEE, SAFETY, AND THE MAN-MACHINE INTERFACE. PROVIDE TECOM TEST REQUIREMENTS FOR THE COORDINATED TEST PROGRAMS. PROVIDE DATA CONCERNING OPERATIONS UNDER EXTREME ENVIRONMENTAL CONDITIONS. CONDUCT PRODUCT IMPROVEMENT TESTS OF FIELDED AVIATION MATERIEL TO IMPROVE SYSTEM CAPABILITY AND RAM. REVIEW AND COMMENT ON NEW EQUIPMENT TRAINING PACKAGES. PROVIDE AIRCRAFT AND SUPPORT AS REQUESTED BY OTHER COMMANDS IN THE MATERIEL DEVELOPMENT EFFORT.

EDWARDS AFB , CA.

INSTALLATION: AVIATION ENGINEERING FLIGHT ACTIVITY

COR.COL. LEWIS J. MCCONNELL

TECH.DIR. JAMES S. HAYDEN

PRUGKAM	PRUGRAM DATA BY FISCAL	YEAR (MILLIUN \$)
	(ACTUAL)	(ACT + EST)
TUTAL RDT&E	6.317	֥600
TUTAL PROCUREMENT	0.000	0.000
TOTAL U&M	0.000	0.000
TUTAL UIHER	0.974	1.042
TOTAL ANNUAL LAB	7.291	5.642
TOTAL INHUUSE	5.658	5.509
TUTAL INHUUSE RUTEE	4.684	4.467
ANNUAL OPERATING COST	0.210	0.230

	PERSUNNEL DATA	TEND UP FY	Y 1979)	
PERSUNNEL	AUTHORIZED	TUTAL	TOTAL	NON-
	STRENGTH	PHDS	PROF	PROF
MILITARY	66	Ù	15	51
CIVILIAN	100	0	26	74
TUTAL	166	o	41	125

		SPACE AN	IU PKOPERTY			
ALRES	SPACE (THU	JUSANUS OF	SQUARE FEE	T)	CUST (MILL	10N \$)
	LAB	AUMIN	UTHER	TOTAL	REAL PRUP	EQUIP
19	9.200	16.000	124.800	150.000	3.63	6.839

...MISSION

PRODUCE ENGR FLT TEST DATA ON ACFT PERF, HANDLING QUALITIES VIBRATION SYS/SUBSYSTEM INTERFACE FOR USE IN ACFT DEVELOPMENT AND QUALIFICATION. SUSTAIN THE CAPABILITY TO COMPLETELY INSTRUMENT TEST ACFT WITH ONBUARD RECORDING/TELEMETRY REAL TIME DATA REDUCTION. CONDUCT PRE-TPS ORIENT.

...CURRENT IMPORTANT PROGRAMS
UH-60A A&FC
AH-1S TABS/PNVS
CH-47D PAE & A&FC
ICING: UH-60A, CH-47D, SIMULATOR DEVELOPMENT
AAH EDTIII&IV

...FUNCTIONS/EQUIPMENT/CAPABILITIES

1JT-28b,1T-28b,20V-1C,1JU-21A,1JAH-1S,2JCH-47C,1JOH-58C,1JUH-60A,5JUH-1H

ACET MAINT CAPABILITY

ACET MODIFICATION CAPABILITY

BAIRBURNE DATA AQUSITION-SYSTEMS

IEMR COMPUTER WITH TELEMETRY

3REMUTE GROUND STATIONS WITH COMPUTER AND TELEMETRY CAPABILITY

1MILIKEN CAMERA

1FAIRCHILD FLT ANALYSER

1MAG TAPE COMPOSER 3MAG TAPE TYPEWRITERS 2MAG TYPEWRITERS 3MAG COMPOSERS

INSTALLATION: AVIATION RESEARCH & TECHNOLOGY LABORATORIES MORFETT FIELD, CA.

DIR.DR. RICHAPD M. LARLSON DEP.DIR.COL. JOHN B. FITCH

PRUGRAM	PROGRAM U	ATA BY FISCAL 1979	YEAR (MILLIUN 1980	\$)
		(ACTUAL)	(ACT + EST)	
TOTAL ROTEE		44.841	49.770	
TOTAL PROCUREM	ENT	2.830	4.201	
TOTAL DEM		0.409	0.000	
TOTAL UTHER		0.439	0.316	
TOTAL ANNUAL L	AB	48.519	54.287	
TUTAL INHOUSE		19.018	25.819	
TOTAL INHOUSE	RDT&E	17.550	24.045	
ANNUAL UPERATI	NG COST	4+460	4.934	
	PERSUNNEL DATA	(END OF FY	1979)	
PERSONNEL	AUTHURIZED	TUTAL	TUTAL	NON-
	STRENGTH	PHUS	PROF	PRUF

TUTAL	560	35	282	278
	SPACE	AND PROPERTY		
ACRES	SPACE (THUUSANDS	OF SQUARE FEET	•	(MILLIÚN \$)
		ハヤったみ	TOTAL STEELS	ANDA CUIT

ACRES SPACE (THUUSANDS OF SQUARE FEET) COST (MILLION \$)

LAB ADMIN OTHER TOTAL REAL PROP EQUIP

127 88.848 58.673 16.370 163.891 1.43 17.608

35

13

265

271

...MISSION

MILITARY

CIVILIAN

MANAGES AND EXECUTES R&D OF ARMY AIRMOBILE SYSTEMS THROUGH DEMONSTRATION OF TECHNOLOGY. PROVIDES TECHNICAL SUPPORT TO PROJECT/PRODUCT MANAGERS & SYSTEM DEVELOPERS AS REQUIRED. PROVIDES INDEPENDENT TECHNICAL RISK ASSESMENT TO CG USAAVRADCOM AND HIGHTR AUTHORITY.

... CURRENT IMPURTANT PROGRAMS

RESEARCH IN HUNDAMENTAL RUTUR AERUDYNAMICS, DYNAMICS & NOISE.

RESEARCH & DEVELOPMENT OF SMALL GAS TURBINES.

24

536

R&D TO IMPROVE RELIABILITY & MAINTAINABILITY OF AIRMOBILE SYSTEMS. RSCH, COMPOSITES & MEASURE OPNL. FLT.LOADS TO IMPROVE STRUCTURES FOR A/C EVOLVE TECHNOLOGY & CRITERIA TO IMPROVE FLIGHT SAFETY & SURVIVABILITY.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

THREE LABORATORIES AT MUFFETT FIELD CA, CLEVELAND OH, HAMPTUN VA, COLOG-ATEU WITH NASA, PARTICIPATING IN RESEARCH OF AIRMOBILE SYSTEMS & DISCIPLI NES, JOINTLY USING WIND TUNNELS, SIMULATORS & LABORATORY TEST FACILITIES, INCLUDING SHUPS, FLIGHT LINE & HANGAR, STRUCTURE LAB, ENGINE TEST FACILITIE S & COMPUTATIONAL EQUIPMENT. FOURTH LABORATORY AT FORT EUSTIS VA., PERFOR MING AUVANCED APPLICATIONS WORK. MAJUR EQUIPMENT & FACILITIES: FILLAMENT WINGING MACHINES, TENSILE TESTERS, VIBRATION TESTER, SMALL BALLISTIC RANGE, CALIBRATION LAB, ENVIRONMENT CHAMBER, ATOMIC ABSORPTION SPECTR, TELEMETER GROUND STATION, NON-DESTRUCT TESTING FACILITY, FLIGHT SAFETY LAB. CDR.CUL.D. PETERSON

DEP-OIR-MR. T. SUETA

	PRUGRAM (DATA BY FISCA	L YEAR (MILLION :	s)
PRUGRAM		1979	1980	
		(ACTUAL)	(ACT + EST)	
TOTAL ROTGE		10.401	11.068	
TUTAL PRINCIPLE	MENT	3.914	5.091	
TOTAL UEM		0.820	1.056	
TUTAL OTHER		0.197	0.265	
TUTAL ANNUAL	LAs	15.332	17.480	
TUTAL INHUUSE		9.125	10.035	
TOTAL INHUUSE	RUTGE	5.504	5.889	
ANNUAL OPERAT	ing cost	2.879	3.081	
	PERSONNEL DATA	A LEND OF FY	Y 1979)	
PERSONNEL	AUTHURIZED	TOTAL	YOTAL	NUN-
	STRENGTH	PHUS	PPUF	PROF
MILITARY	12	O	8	4
CIVILIAN	211	5	133	78
TOTAL	223	5	141	82
	SPACÆ	AND PROPERTY	Y	
ACRES	SPACE (THUUSANDS			(MILLIUN \$)

...MISSION

RESPONSIBLE FOR THAT PURTIUN OF AVRADOUM'S MISSION WHICH PERTAINS TO AVIATION ELECTRONICS FROM RESEARCH THRU FIRST TIME PRODUCTION. THIS ENCUMPASSES BOTH AIRBORNE AND GROUND EQUIPMENT FOR COMMUNICATIONS, NAVIGATION INSTRUMENTATION, ENVIRONMENT SENSING, LANDING AND AIR TRAFFIC

UTHER

0.000

TOTAL

49.500

REAL PROP

0.00

EUUIP

7.098

...CURRENT IMPURTANT PROGRAMS
ARMY DIGITAL AVIUNIUS SYSTEMS
INTEGRATED AVIUNIUS CONTROL SYSTEM, IACS
AVIATION NAP-OF-THE-EARTH COMMUNICATIONS
NIRH AND WIRE LIKE OBJECT DETECTION SYSTEM
VERY LIGHT WEIGHT AIR TRAFFIC MANAGEMENT EQUIPMENT

LAB

16.000

and the second of the second and the second of the second

KIMCIA

33.500

...HUNCILONS/EQUIPMENT/CAPABILITIES
MAINE ENUIPMENT INCLUDES NIGHT NAVIGATION PILOTAGE DYSTEM, DIGITAL HUT
BENCH. SYMBULUGY GENERATOR, WIRE DETECTION AND RECOGNITION SIMULATOR,
DIGITALLY ADDRESSABLE, MULTI-LEGEND DISPLAY SWITCH, MICROPROCESSOR
SYSTEM SIMULATOR, ENVIRONMENTAL VEHICLE FOR AVIONICS RESEARCH, SKC-2000
DATA ACQUISITION SYSTEM, ANTENNA RANGE, ELECTROMAGNETIC INTERFERENCE
TEST FACILITY CAD-E FACILITY, MICROPROCESSOR DEVELOPMENT CENTER, DATA
FURMATTING FACILITY AND AIR TRAFFIC MANAGEMENT SYSTEMS DESIGN CENTER.
MATTING FACILITY AND AIR TRAFFIC MANAGEMENT SYSTEM DESIGN

INSTALLATION: SALLISTIC RESEARCH LABORATORY

ABERDEEN PROV.GR..MD.

DIR-GRARUBERT J. EICHELBERGER DEP.DIR.COL.ROBERT M. GOMEZ

	PRUGRAM DATA BY FISCAL	YEAR (MILLION S)
PROGRAM	1979	1980
	(ACTUAL)	(AUT + EST)
TOTAL ROTAE	45.854	36.598
TOTAL PROCUREMENT	0.298	0.000
TUTAL UEM	U. 397	0.124
TUYAL UTHER	2.095	2.155
TOTAL ANNUAL LAB	48.044	38.877
TOTAL INHUUSE	36.970	31.455
TUTAL INHOUSE ROTEE	34.748	29.176
ANNUAL UPERATING COST	11.084	11,749

	PERSONNEL DATA	(ENU UF F	Y 1979)	
PERSONNEL	AUTHURIZED	TUTAL	TOTAL	NUN -
	STRENGTH	PHDS	PROF	PROF
MILITARY	26	2	10	16
CIVILIAN	755	100	390	365
TUTAL	781	102	400	381

		SPACE AND) 	•		
ACRES	SPACE (THO	USANDS OF	SQUARE FE	ET)	COST (MILL	ION \$)
	LAB	ADMIN	UTHER	TOTAL	REAL PROP	EQUIP
1920	539.702	11.200	40.982	591.884	14.59	33.742

...MISSION

CONDUCT RESEARCH AND EXPL DEV IN SCIENCES/TECHNOLOGIES NECESSARY FOR CONCEIVING. UESIGNING. DEVELOPING AND EVALUATING WEAPON. SYSTEMS PURSUE URIENTED FUND RESEARCH IN PHYS. CHEM. MATH & ENGINEERING SUBJECTS INVESTIGATE PERTINENT BRANCHES OF MILITARY SCIENCES AND TECHNOLOGIES

...CURRENT IMPURTANT PROGRAMS
PROPULSION DYNAMICS OF HYPERVELUCITY AND CONVENTIONAL GUNS
EFFECTS OF CONVENTIONAL/NUCLEAR WARHEADS AND BALLISTIC PROTECTION
WARHEAU DYNAMICS, PENETRATION, FRAGMENTATION, EXPLOSIVE/METAL INTERACTIONS
FLIGHT DYNAMICS OF PROJECTILES AND MISSILES; ARTILLERY FIRING TABLES
VULNERABILITY ANALYSIS/VULNERABILITY REDUCTION ARMY MATERIEL.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
SHOCK TUBES TO SIMULATE NUCLEAR BLASTEMEASURE CHEMICAL REACTION RATES
SUFT RECOVERY SYSTEM FOR ARTICLERY SHELLS, HIGH SPEED MOTION PHOTOGRAPHY
SPAKE PHOTOGRAPHY HANGES, X-RAY CINEPHOTOGRAPHY, FLASH HOLOGRAPHIC SYST
FIELD TEST FACILITIES FOR PROJECTILE, EXPLOSIVE, AND ARMOR RESEARCH TESTS
CENTRAL SITE COMPUTATIONAL FACILITY WITH 60 REMOTE INTERACTIVE TERM AND
POUSED FLOW CHEMICAL REACTOR SYSTEM

INSTALLATION: BIOMEDICAL LABORATORY *

ABERDEEN PROV. GR.,MD

CDR.COL.CRAIG H. LLEWELLYN

	PRO	GRAM DAT	A BY FISCA	L YEAR (MILLIO	N S)
PRUGRAM			1979	1980	
		(A	CTUAL)	(ACT + EST)	
TOTAL RDT&E			0.000	6.246	
TOTAL PROCURE	1ENT		0.000	0.000	
TOTAL UEM			0.000	0.000	
TOTAL OTHER			0.000	1.37/	
TUTAL ANNUAL I	_AB		0.000	7.	
TOTAL INHUUSE			0.000	5.4	
TUTAL INHUUSE	RDT&E		0.000	4.0 0	
ANNUAL UPERATI	ING CUST		0.000	2.791	
	PERSONNE	EL DATA	(END OF FY	(1979)	
PERSONNEL	AUTHURIZED		TUTAL	TOTAL	NON-
	STRENGTH		PHDS	PROF	PROF
MILITARY	66		25	41.	25
CIVILIAN	121		10	54	67
TUTAL	187		35	95	92
		SPACE AN	D PROPERTY	, *	
ACKES	SPACE (THOU	JSANUS OF	SQUARE FE	ET) COS	T (MILLION \$)
	LAB	AUMIN	UTHER	44	L PRUP EQUIP
O	0.000	0.000	0.000	0.000	0.00 0.000

...MISSION

CUNDUCTS ROTE IN SUPPORT OF THE ARMY MEDICAL DEPARTMENT PROGRAM FOR MEDICAL DEFENSE AGAINST CHEMICAL AGENTS AND IS THE PRINCIPAL ELEMENT FOR THE DEVELOPMENT AND EVALUATION OF THE SAFETY AND EFFICACY OF MODES FOR PROPHYLAXIS AND TREATMENT OF CHEMICAL INJURY IN MAN

***CURRENT IMPURTANT PROGRAMS
PRUPHYLAXIS AND THERAPY FÜR CHEMICAL CASUALTIES
DECREMENT UF PERFORMANCE
NUN-BEHAVIOHAL EFFECTS UF P AND T CUMPDUNDS FOR CHEMICAL CASUALTIES
SKIN DECONTAMINATION AND PROTECTION
MECH UF THE SPUNTANEOUS REACTIVATION UF GB-INHIBITED ACETYLCHOLINESTERAS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
FULLY STAFFED CLINICAL RESOURCE FACILITY LARGE ANIMAL RESOURCE FACILITY
LIQUID GAS COLUMN AND AFFINITY CHROMATOGRAPHY ELECTROPHORESIS
SPECTRUPHOTUMETRY AND FLUKOMETRY RADIOISCIDPE ANALYSIS SCAT BEHAVIORAL
CONTRUL SYSTEM BEHAVIORAL TESTING LABORATUPY NEUROPHYSIOLOGICAL
PHARMACOLOGICAL INVESTIGATIONS COMPLETE VIDEO PRODUCTION FACILITY

SPLIT OFF FROM CHEMICAL SYSTEMS LABORATORY (CSL)
SPACE AND PROPERTY DATA INCLUDED UNDER CSL FOR FY79 ONLY
FISCAL DATA FOR FY80 NOT INCLUDED IN USL.SHOWN ABOVE

ABERDEEN PROV. GR.,MD

INSTALLATION: CHEMICAL SYSTEMS LABORATORY

DIR.COL. JOHN D. SPENCE

DEP.DIR.DR. BENJ L. HARRIS

PROGRAM	PROGRAM DATA BY FISCAL 1979	YEAR (MILLION \$)
ROOKAII	(ACTUAL)	(ACT + EST)
TUTAL RUTGE	58.966	61.962
TOTAL PROCUREMENT	11.701	22.508
TUTAL DEM	1.600	2.000
TOTAL OTHER	2.694	1.359
TOTAL ANNUAL LAB	74.961	87.829
TUTAL INHOUSE	48.354	45.338
TOTAL INHOUSE ROTEE	37.320	34.605
ANNUAL UPERATING COST	6.874	6.588

	PERSONNEL DATA	(END OF F	Y 1979)	
PERSUNNEL	AUTHURIZED	TOTAL	TOTAL	NUN-
	STRENGTH	PHDS	PROF	PKOF
MILITARY	150	25	78	72
CIVILIAN	757	46	451	306
TOTAL	907	71	529	378

		SPACE AN	O PROPERTI	1		
ACRES	SPACE (THO	USANUS OF	SHUARE FE	EET)	COST (MILL	IUN \$)
	LAB	ADMIN	UTHER	TOTAL	REAL PROP	EQUIP
2000	579.564	84.169	405.670	1069.403	22.03	26.692

CLASS 11 ACTIVITY CONDUCTING A RESEARCH & DEVELOPMENT MISSION FOR ARMY CHEMICAL MUNITIONS & DEFENSIVE ITEMS. INCLUDES BASIC RESEARCH AND GENERAL INVESTIGATIONS AS WELL AS EXPLORATORY, ADVANCED AND ENGINEERING DEVELOPMENT OF MATERIAL.

... CURRENT IMPURTANT PROGRAMS NEW PRUTECTIVE MASK DEVELOPMENT BINARY LETHAL CHEMICAL AGENT PROJECTILE DEVELOPMENT SMUKE OBSCURANTS AND SMOKE TOXICULUGY MEDICAL DIAGNOSIS PROPHYLAXIS AND TREATMENT OF CHEMICAL AGENTS CHEMICAL DECUNTAMINATION AND CONTAMINATION AVUIDANCE

... FUNCTIONS/EQUIPMENT/CAPABILITIES BASIC RESEARCH; SMOKE/OBSCURANTS; SMUKE TOX; DECON & CUNTAMENATION AVDIDANCE; ALARM TECH; TRAINING AGYS; CML PROTECTION; PHY DEF AGAINST BLU ATTACK; DETECT & IDENT; CB THREAT ASSESS; OPER SCIENCE/TECH; TOX EF-FECTS OF THREAT AGTS; LETHAL AGTS; MED EFFECTS CML AGTS; ENVIRONMENTAL QUALITY; C1V1L DIST; INCAP CML AGTS; BID RESPONSE TO TRAUMA; ASSESS FUREIGN BIULUGICALS MAJUR EQUIP IS CONTAINED IN A COMPLEX OF ENGINEERING/LABORATORY AREAS. INCLUDES CML PILOT PLANT FAC; AERUSUL CHAMBER; MUNITION FILLING FAC; PLANT DESIGN; ANECHOIC CHAMBER; SIMULANT AGT CHALLENGE TEST CHAMBER; RUBBER/ELASTOMER MULD FAC; SPEC CML AGT LABS; PYROTECHNIC MEXING LOADING HANDLING FAC: INDOOR BALLISTIC RANGE; SUBSUNIC-SUPERSONIC, TRANSUNIC WIND TUNNEL.A CUMPLETE CLINICAL RES FAC, ANIMAL BREEDING-HOLDING FACILITY.

INSTALLATION: COLD REGIONS R&E LABORATURY

HANDVER , N.H.

CUR.COL.A.B. DEVEREAUX, JR.

TECH-DIR.DR. DUP. FREITAG

	PROGRAM DATA BY FISCAL	
PROGRAM	1979	1980
	(ACTUAL)	(ACT + EST)
FUTAL RUISE	5.064	5.956
TUTAL PRUCUREMENT	0.000	0.000
TOTAL UEM	0.281	0.155
TUTAL UTHEK	6.812	7.346
TUTAL ANNUAL LAB	12.157	13.457
TOTAL INHOUSE	9.527	10.467
TOTAL INHUUSE ROTEE	3.454	4.062
ANNUAL SPERATING CUST	2.540	2.870

	PERSUNNEL DATA	LEND OF E	Y 1979)	
PLRSUNNEL	AUTHURIZED	TUTAL	TOTAL	NON-
	STRENGTH	PHUS	PROF	PKGF
MILLTARY	14	1	4	10
CIVILIAN	263	32	109	154
TUTAL	277	33	113	164

		SPACE AN	U PROPERTY			
ACRES	SPACE (THE	NUSAMUS OF	SWUARE FEE	T)	COST (MILL	10N \$)
	LAB	AUMIN	UTHER	TOTAL	REAL PRUP	EQUIP
24	80.786	30.027	128.544	239.357	7.89	6.959

...MISSIUN

AS THE ARMY LABORATURY FUR SCIENCE AND TECHNOLOGY IN COLD REGIONS. THE US ARMY COLD REGIONS RESEARCH AND ENGINEERING LABORATURY CONDUCTS AND COURDINATES RESEARCH APPLICABLE TO THE ARMYS NEEDS WHERE WINTER WEATHER AND COLD REPRESENTS A SEVERE PROBLEM.

...CURRENT IMPURTANT PROGRAMS
FACILITIES CONST, OPERATION, & REPAIR UNDER TEMP & ARCTIC COLD
CONDITIONS WINTER CUMBAT OPERATIONS FECHNOLOGY
IMPACT OF WINTER ENVIRONMENT ON NEW WEAPON SYSTEMS AND OTHER MATERIEL
CONTROL OF ICE ON STRUCTURES, EQUIPMENT AND IN NAVIGATION
LAND TREATMENT OF WASTEMATER

...FUNCTIONS/EQUIPMENT/CAPABILITIES

THE MAIN LABORATURY AT USACRREL CONTAINS 24 COLD LABS WHICH CAN BE UPERATED TU -D8 F, SPECIAL TESTING APPARATUS FOR FROZEN MATERIALS, AN ICE ENGINEERING FACILITY FOR LARGE MUDELING EXPERIMENTS WITH ICE, A CHEMISTRY LAB, AN ELECTRON MICROSCOPE LAB, A SOILS PROCESSING LAB, A PAVEMENT TEST FACILITY FOR TESTING UNDER FREEZING/THAWING CONDITIONS, A WASTEWATER TREATMENT RESEARCH FACILITY, A COMPUTER FACILITY, A MASS SPECTRUMETER, A GAS CHROMATOGRAPH, AND A SMALL LASER FACILITY. THE ALASKA PROJECTS OFFICE AT FAIRBANKS CUNDUCTS RESEARCH AND PROVIDES LOGISTIC SUPPORT FOR OTHER RESEARCH. USACRREL'S MILITARY AND CIVILIAN PERSONNEL HAVE EXPERTISE COVERING A WIDE RANGE OF SCIENTIFIC AND ENGINEERING DISCIPLINES RELATEL TO COLD REGIONS RESEARCH.

CUR.CUL. JAMES F. HENRIUNNET TECH-AUV. MR.WILLIAM J. HASLEM

	PRUGRAM DA	ATA BY PISCAI	L YEAR (MILLIUN	5 }
PROGRAM		1970	1980	
		I ACTUAL !	(ACT + EST)	
TUTAL KUTEL		4.045	5.103	
TUTAL PROCURE	MENT	0.033	0.010	
TUTAL DEM		0.017	0.000	
TOTAL OTHER		4.145	4.393	
TUTAL ANNUAL	LAH	8.290	9.506	
TUTAL INHOUSE	<u> </u>	8.290	9.506	
TOTAL INHUUSE	RUTEE	4.045	5.103	
ANNUAL OPEKA	ING CUST	3.496	2.187	
	PERSONNEL DATA	(END UF FY	1979)	
PERSUNNEL	AUTHUR1ZED	TUTAL	TOTAL	NON-
	STRENGTH	PHUS	PROF	PKOF
MILITARY	282	i	18	264
CIVILIAN	22	O	7	15
TUTAL	304	ı	25	279
	SPACE	AND PROPERTY		
ALKES	SPACE (THUUSANDS	OF SQUARE FE	ET) CUST	(MILLION \$)

PACE (THUUSANUS OF SQUARE FEET) REAL PROP EQUIP 647155 5.231 14.341 203.565 303.137 12.19 8.225

... MI 55 LUN

PLAN. CONDUCT, EVALUATE, REPORT ON ENVIRONMENTAL PHASE OF DEVELOPMENT TESTS EMPLOY INTEGRATED TESTING PULICIES DURING DIVELOPMENT TESTING. PROVIDE TECH INFU.ADVICE.GUIDANCE OM TESTS TO GOVT AGENCIES AND INDUSTRY.CONDUCT UTHER TESTS AND EVALUATIONS AS DIRECTED BY CG TECOM.

... CURRENT IMPORTANT PROGRAMS CUPPERHEAD/GROUND LASER LUCATOR DESIGNATOR ROLAND GRUUNU EMPLALED MINE SCATTERING SYSTEM SURFACE LAUNCHED UNIT FUEL AIR EXPLUSIVE XM252 81 MM MURTAR , UNITED KINGDUM

... FUNCTIONS/EQUIPMENT/CAPABILITIES

FACILITY CAN ACCOMODATE A WIDE VARIETY AND LARGE NO OF TESTS AT ANY ONE TIME-SEVERAL VEH TST COURSES AND EXTENSIVE CRISS COUNTRY TERRAIN RANGES ARE VERSAFILE.500 THOUS ACRE ISOLATED IMPACT AREA, 50KM MAX UNUBSERVED RANGE LARGE RESTRICTED AIRSPACE AREA WITH UNRESTRICTED FIRING 10 5000 FT ORDINATE. COURDINATION WITH FAA CAN EFFECT UNLESTRICTED ORDINATE.IST 2ND UR BRU URBER SURVEY PUINTS. GOOD SECUNDARY ROADS. PHONE/NGN-TAC RADIO AT ALL RANGES AND TEST SITES. AUTUUIN # FASCIMILE TELETYPE, PHOTOLAB AND MAINT FOR MAJURITY OF EQUIP INCL ACFT, US/GS CALIBRATION # SYCS , LIMITED ENGINEER SUPPORT. UHIA ACHT. AF SPT CAN BE ARRANGED. MET TEAM SUPPORT AVAILABLE. INST FOR MUST ITEMS ON HAND, CAN OBTAIN OTHER INSTRUMENTS. MUVING TARGET SYSTEM, REMOTE SARTS TARGET SYSTEM, E.O.O. SYATISTICAL AND MAINTENANCE EVALUATION CAPABILITIES AVAILABLE. ADAGUATE COMPUTER FACIL.

INSTALLATION: CUMBAT SURVEILLANCE & TGT ACQUISITION LAB FT.MONMOUTH.N.J.

CDR.DIR. CUL.J. G. MIKULA

	PROGRAM DA	ITA BY FISCAL	YEAR (MILLION \$)
PROGRAM		1979	1980
	1	(ACTUAL)	(ACT + EST)
TUTAL ROTGE		34.590	38.757
TOTAL PROGUREME	NT	20.183	39.881
TUTAL UEM		0.786	0.941
TUTAL UTHER		0.000	0.009
TUTAL ANNUAL LA	o o	55.559	79.579
TUPAL INHUUSE		12.319	12.604
TOTAL INHUUSE P	UT&E	9.749	9.350
ANNUAL UPERATIN	G CUST	1.943	2.079
	PERSONNEL DATA	(END OF FY	1979)
PERSONNEL	AUTHURIZED	TOTAL	TOTAL
	STRENGTH	PHDS	PROF
MILITARY	£4+	0	7

165

179

		SPACE ANI) PKNYEKTY			
AURES	SPACE (THU	USANDS OF	SQUARE FFE	= T)	COST (MILL	ION *)
	LAB	ADMIN	UTHER	TUTAL	REAL PROP	EUULP
35	52.32+	6.139	10.589	69.052	0.95	11.333

NON-PROF

62

103

110

...MISSIUN

CIVILIAN

TUTAL

CUMBUCT ALL PHASES OF R&D INCL PROD IN THE FOLLOWING PHYSICAL SCIENCES & ASSOCIATED TECHNOLOGIES - IDENT FRIEND FOE NEUTRAL; DATA TRANSMISSION & PROCESSING; NUCLEAR RADIATION DETECTION & MEASUREMENT; RADAR; ACOUSTIC WEAPONS LUCATION; REMOTE SENSING; AND IMAGERY INTERPRETATION.

...CURRENT IMPORTANT PROGRAMS
PROGUREMENT OF MOBILE GROUND IMAGERY INTERPRETATION CENTER.
AUV DEV OF BATTLEFIELD IDENT FRIEND OR FOE.
DEV OF ADV GROUND SURV & TARGET ACQ RADAR SYSTEM,
ADV DEV & INITIAL PROD OF VARIOUS RADIAL SETS & DOSIMETERS
EXPL DEV OF VARIOUS CS&TA SENSORS & DATA XMSN TECHS & SYSTEMS

... FUNCTIONS/EQUIPMENT/CAPABILITIES

KADAR TECHNIQUES DEVELOPMENT FACILITIES, INCL MICROWAVE DARKROOM, ANTENNA PATTERN & TEST RANGE, 65-FT RADAK TEST PLATFORM. OUTUJOR & INDOOR RANGES INSTRUMENTED FRUM 30 MHZ TO 70 GHZ. MOBILE SPECTRAL & TIME DISTRIBUTION MEASUREMENT FACILITIES. RADAR INSTRUMENTATION FACILITY CAPABLE OF FRACKING X-BAND RADAR & COLLECTING & RECORDING POSITIONS, VELOCITY, AND SIGNAL STRENGTH, INCLUDING A SHORT KANGE SEARCH CAPABILITY. DATA INFORMATION INVESTIGATION; STUDIES AIMED AT BANDWIDTH REDUCTION, AJ TECHNIQUES, INFORMATION PROCESSING, DIGITAL FRAME STURAGE MEMORY CIRCUITS AND MULTI-ELEMENT, MULTI-FUNCTION, MULTI-BEAM ANTENNA SYSTEMS. RADIOLOGICAL ASSISTANCE TEAM EXPERIENCED IN FUNCTIONING NEAR NUC DETONATIONS, FALLOUT FIELDS, & RADIOL ACCIDENTS. ALPHA, BETA, & GAMMA SURVEY METERS; NEUTRON & GAMMA DOSIMETERS.

FT. GORDON, GA.

INSTALLATION: COMMUNICATIONS - FLECTRONICS BOARD

PRES.CUL. NURMAN E. ARCHIBALD ENGR.ADV.MP. RONNIE E. BRACKETT

	PROGRAM DATA BY FISCAL	YEAR (MILLION \$)
PROGRAM	1979	1480
	(ACTUAL)	(ACT + EST)
TUTAL KUTEE	1.263	1.155
TUTAL PRUCUREMENT	0.009	0.025
TOTAL USM	0.076	0.023
TUTAL UTHER	0.851	1.229
TUTAL ANNUAL LAB	2.190	2.432
FORAL INHUUSE	2.199	2.432
TOTAL INHOUSE ROTEE	1.263	1.155
ANNUAL UPERATING CUST	0.189	0.443

	PERSUNNEL DATA	LENU UF F'	Y 1979)	
PERSUNNEL	AUTHUR1ZED	TUTAL	TOTAL	NON-
	STRENGTH	PHUS	PRUF	PROF
MILITAKY	62	a	43	19
CIVILIAN	31	O	7	24
TUTAL	43	v	50	43

		SPACE AND)			
ACRES	SPACE (THE	SUSANUS OF	SQUARE FEET	T)	CUST (MILL)	IUN S)
	LAB	AUMIN	UTHER	TOTAL	REAL PROP	EQUIP
7	0.000	18.960	2.488	21.448	0.12	0.077

...MISSION

PLANS, CUNDUCTS AND REPORTS ON OPERATIONAL TESTS OF I, II, AND III OF CHE SYSTEMS AND FURCE DEVELOPMENT TESTING AND EXPERIMENTATION AS PUBLISHED IN THE DA FIVE YEAR TEST PROGRAM. CONDUCTS CONCEPT EVALUATION PLANS AND OTHER USER-RELATED/CUSTOMER TEST DIRECTED BY TRADUC

...CURRENT IMPORTANT PROGRAMS
MILLIMETER WAVE LENGTH RADIO
ARMY DATA DISTRIBUTION SYSTEM/PACKET RADIO EXPERIMENT
DIVISION LEVEL DATA ENTRY DEVICE
ASYNCHRUNUUS DIGITAL COMBINER
VIDEU TECHNILAL CONTROL CENTER

...FUNCTIONS/EQUIPMENT/CAPABILITIES
NO MAJUR EQUIPMENT, HOWEVER CAPABILITY EXISTS TO ACCOMPLISH ABOVE MISSION

CDR.MG. EMMEIT PAIGE.JR.

TECH.DIR.MR. THEODORE PREIFFER

	PROGRAM DATA BY FISCAL	YEAR (MILLION &)
PRUGRAM	1979	1480
	(ACTUAL)	(ACT + EST)
TOTAL RUTEE	49.157	60.485
TOTAL PROCUREMENT	7.415	4.500
TUTAL DEM	2.656	3.130
TOTAL OTHER	0.000	0.000
TUTAL ANNUAL LAS	59.228	68.115
TOTAL INHUUSE	6.274	12.186
TUTAL INHUUSE ROTEE	5.431	10.856
ANNUAL UPERATING COST	1.040	1.145

	PERSUNNEL DATA	(END OF F	Y 1979)	
PERSONNEL	AUTHURIZED	TUTAL	TOTAL	NUN-
	STRENGTH	PHDS	PROF	PROF
MILITARY	28	Ú	13	15
CIVILIAN	421	10	27 1	150
TUTAL	449	10	284	165

		SPACE AND) PROPERTY			
ACRES	SMACE (THU	USANDS UF	SQUARE FEF	T)	COST (MILL	IUN S)
	LAB	ADMIN	UTHEK	JATOT	REAL PRUP	EQUIP
O	72.746	4 - 642	0.000	77.388	0.00	10.800

. .. MISSIUN

CUNDUCT R & D RELATED TO COMM EQUIP AND SYSTEMS, INCLUDING FIELDS OF RADIO, TELEPHONIC, FACSIMILE AND DATA COM; COMSEC AND COMM, PROC. CONDUCT AND DIRECT TECH BASE R & D PROG IN TACT ADP SYSTEMS AND COMP SCI DEV MULTIMAPPL TACT ADP HARDWARE AND SOFTWARE, MANAGE THE C3 AND ARMY INTEROP SYS

...CURRENT IMPORTANT PROGRAMS
FIBER OPTICS
ARMY DATA DISTRIBUTION SYSTEM
DIGITAL GROUP MULTIPLEXER
MILITARY COMPUTER FAMILY AND INTELLIGENCE TERMINAL FAMILY
ARMY C3 AND INTERUPERABILITY SYSTEM ENGINEERING

... FUNCTIONS/EQUIPMENT/CAPABILITIES

TELEPROCESSING DESIGN CENTER IS LAB EXPLRIMENTAL FACTLITY THAT SUPPORTS EXPERIMENTS WHICH ALLOW UPTIMUM DEVELOPMENT AND VALIDATION OF ARMY AND JUINT SERVICES TACTICAL DATA SYSTEMS CONFIGURATIONS. TOO HAS EMULATIONS OF ARTAUS TACFIRE BATTALION SYSTEM, ANZING TOO SUPPORT SUFTWARE SYSTEM. TOO HAS DEVELOPED EMULATIONS OF THE ANZUYK-15 AND ANZUYK-19 COMPUTERS IN SUPPORT OF FIREFINDER AND ATE DEVELOPMENT PROGRAM. CO SYSTEM ENGRG IS BEING PERFORMED FOR THE ARMY COMMAND CONTROL MASTER PLAN, JINTACCS, INTRA-ARMY INTERUPERABILITY DEVELOPMENTS AND JOINT INTERFACE TESTING

CDR.CUL. L. J. CIRCEO

TECH-DIRADRA L. R. SHAFFER

CDK-COL- L- J- C	1 4000	1 50	.n.b1 (404)	L. N. SHAP	FER	
	P K(GRAM DAT	A BY FISC	AL YEAR (MI	LLIUN S)	
PRUGRAM			1979	19	80	
		(A	CTUAL)	(ACT + ES	T)	
TOTAL ROTGE			6.945	7.0	93	
TUTAL PROCUREMEN	T		0.000	0.0	00	
TUTAL USM			1.416	1.7		
TOTAL UTHER			2.176	2.6		
TUTAL ANNUAL LAB			10.537	11.5		
					. •	
TUTAL INHOUSE			8.684	9.4	01	
TUTAL INHOUSE RD	TEE		6.330	6.4	65	
ANNUAL UPERATING	COPL		1.593	1.8	9Ù	
		EL DATA		Y 1974)		
PERSONNEL A	いしゅついいんしん		TUTAL	TUTA	L	N(IN-
	STRENGTH		PHUS	PRU	F	PROF
MILITARY	3		1	•	2	1
CIVILIAN	204		311	13	3	71
TUTAL	207		31	13	5	72
			NO PROPERT			
ACRES S	PACE (THU		SQUARE F		CUST (MIL	LION \$)
	LAH	AUMIN	UTHEK	TOTAL	REAL PROP	EUJIP
30	76.081	34.159	0.000	110.240	3.89	4.438

...MISSION

PLAN, EXECUTE, AND EVALUATE RESEARCH TO OBTAIN THE BEST COMBINATION OF ENGINEERING, DESIGN, CONSTRUCTION, OPERATION & MAINTENANCE TO PROVIDE FACILITIES FOR THE MILITARY ESTABLISHMENT AND OTHER AGENCIES AT LEAST COST AND TO DISSEMINATE THE RESEARCH RESULTS.

...CURRENT IMPURTANT PROGRAMS
DEV ENERGY CONS TECH/PROC BY 1985
DEV COMP ALUED SYSTS IN PLAN MILITARY FACILITIES
DEV MGMT SYST IN CONST OF MILITARY FACILITIES
DEV IMPROVED SYST FOR RPMA OF MILITARY FACILITIES
DEV SYSTS FOR USA EPA REUMTS

... FUNCTIONS/EQUIPMENT/CAPABILITIES

CUNTRUCLED ENVIRONMENT CHAMBER, UNE MILLION POUND CLOSED LOOP MATERIALS TEST SYSTEM, SCANNING ELECTRON MICROSCOPE, 5MW RESISTANCE LOAD BANK AND INSTRUMENTATION, X-RAY EQUIPMENT, SEMI-AUTUMATIC WELDING EQUIPMENT, BIAXIAL SHOCK TEST MACHINE, NON-DESTRUCTIVE TESTING FACILITY, VACUUM INDUCTION FURNACES, METALLOGRAPHIC SAMPLE PREPARATION AND RESEARCH METALLOGRAPH X-RAY DIFFRACTION AND VACUUM SPECTROSCOPY SYSTEM, DYNAMIC TENSION ANALYSIS SYSTEM, DIGITAL RECORDING ANALYSIS EQUIPMENT FACILITIES CAPABILITIES INCLUDE SYSTEMS BUILDING METHODS AND TECHNIQUES, COMPUTER BASED DESIGN AND CONSTRUCTION MANAGEMENT TECHNIQUES, HARDENED FACILITIES ANALYSIS, ENVIRONMENTAL QUALITY MANAGEMENT, POLLUTION CONTROL AND ABATHMENT, MILLITARY HOUSING SYSTEMS, POWER GENERATION SYSTEMS, UTILITIES SYSTEMS ANALYSIS AND EVALUATION, AND ARCHITECTURAL RESEARCH.

CDR.CUL. CHARLES H. BAY

SCI-DIR, DR. MURTIMER A. KOTHENBERG

	PROGRAM	DATA BY FISCA	L YEAR (MILLION	S)
PRUGRAM		1979	1980	
		(ACTUAL)	(ACT + EST)	
TUTAL ROTEE		17.594	17.363	
TOTAL PROCURE	MENT	0.363	0.300	
TUTAL UEM		2.790	1.457	
TOTAL UTHER		3.506	3.460	
TOTAL ANNUAL	LAB	24.253	22.580	
TUTAL INHOUSE	:	21.397	20.334	
TUTAL INHUUS	: ROTEE	15.306	15.613	
ANNUAL UPERAT	TING COST	9.759	11.005	
	PERSONNEL DA	TA LEND UF HY	/ 1979)	
PERSONNEL	AUTHURIZED	TUYAL	TUTAL	NON-
	STRENGTH	PHDS	PROF	PROF
MILITARY	159	ì	10	149
CIVILIAN	619	15	73	546
TUTAL	778	16	83	695
	SPAC	E AND PROPERTY	,	
AURES	SPACE (THOUSAND			(MILLIUN \$)

LAB ADMIN UTHER TOTAL REAL PROP EQUIP 802731 104.875 201.133 1643.266 1949.274 79.99 28.762 ..MISSIUN

JPG PLANS & CONDUCTS APPROVED TESTS TO ASSESS THE MILITARY VALUE OF CML WEAPONS, SMUKEZUBSCURANTS & CML-BIO DEF SYS. TESTS SPT R&D & PROVIDE BASIS FOR DEVELOPMENT OF NEW OPERATIONAL & LOGISTICAL CONCEPTS FOR EMPLOYMENT OF TESTED SYS. TESTS ARE RESPONSIVE TO USER REQUIREMENTS.

..CURRENT IMPORTANT PROGRAMS
CONDUCTS SERVICE DEVICE CHE CHE-BID DEFENSE SMOKE/OBSCURANT TEST PROGRAMS
CONDUCTS R & D & LAB INVESTIGATIONS NECESSARY TO SUPPORT MISSION
CONDUCTS OF CHE & CHE-BIO DEFENSE TESTS/STUDIES FOR CINCS, SERVICES
CONDUCTS PROG TO SUP ARMY POLE ABATEMENT HAZARD EVAL & DEMIL DPNS
CONDUCTS ECOLOGICAL EPIDEMIOLOGICAL & TOXICOLOGICAL SURVE OF DPG AREA

**FUNCTIONS/EQUIPMENT/CAPABILITIES
INST GRIDS FOR CML CML-BIO TESTS:ARTY RG FOR CONVL & CML METAL PARTS,
BALLISTIC & DISSEM TESTS:WITH FIELD SMPL, SMPL MASS ANAL, MET(AUTO DATA
ACU & MESOMET NETWK)SYS. TSPI(RADAR SLAVE PHOTO)SYS;PHYS & ENVIRON TEST
FAC(MIL SPEC 810) CHAMBERS FOR TOTAL AGENT CONTAINMNT; EXPLO SHIELDING
PROPAGATION & OVERPRESSURE MEASMNTS, OPNS SPTD BY MET RSCH ON BEHAVIOR
OF CLOUDS; CML, LIFE SCI TECHN, ECOL SURVL OF DPG; CAPBL FOR PLANNING
ANAL, EVAL OF TESTS, OPNS RSCH; LABS EQUIPD FOR WIDE RNG OF CML, MICROBIOL,
TOXICOL, IMMUNOL, ECOL, EPIDEMIO, POLL CNTL STUDIES; CAPBL FOR PROD BIO
SIMUL AG; TECHN & MASS ASSAY OF FLOURESCENT AIR TRACERS; EXTENSY COMM
& RG SAFETY SYS. OUTSTANDING ARE LARGE LAND AREA, RESTRICTED AIR SPACE,
LONG & FLAT ARTY RANGES, PROJECTILL RECOVERY, SONIC & ELECTROMAG
STERILITY, DIVERSE SKILLS.

INSTALLATION: ELECTRONIC PROVING GROUND

FT.HUACHUCHA.AR.

CURICUL. JAMES H. PHILLIPS TECHIDIRIMR. GRADY H. BANISTER, JR.

	PRUGRAM DATA BY FISCAL	
PRUGRAM	1979	1980
	(AC FUAL)	(ACT + EST)
TOTAL ROTEL	10.162	11.360
TOTAL PROCUREMENT	3.235	3.600
TOTAL UEM	2.062	2.300
TOTAL UTHER	11.023	10.262
TUTAL ANNUAL LAB	26.482	27.522
TOTAL INHOUSE	19.594	19.724
TUTAL INHOUSE ROTGE	5.980	6.700
ANNUAL UPERATING COST	7.919	8.667

	PERSUNNEL DATA	(END OF F	Y 1979)	
PERSONNEL	AUTHÜRIZEU	TOTAL	TOTAL	NON-
	STRENGTH	PHDS	PROF	PROF
MILITARY	587	0	47	540
CIVILIAN	213	1	56	157
TUTAL	800	1	103	697

		SPACE AN	U PRUPERTY			
ACRES	SPACE (THU	SUSANUS UF	SUUARE FE	ET)	COST (MILL	ION S)
	LAR	AUMIN	UTHER	TUTAL	REAL PRUP	EQUIP
66000	0.000	50.300	215.242	265.542	7.12	51.200

...MISSION

PLAN, CONDUCT, EVALUATE AND REPORT ON DEVELOPMENT AND OTHER ENGINEERING/ LAB-TYPE TESTS OF GROUND AND AIRBURNE EQUIPMENT AND SYSTEMS THAT UTILIZE ELECTRUNIC/ELECTROMAGNETIC TECHNOLOGY. MAINTAIN MODERN TEST FACILITY, INSTRUMENTATION, AND METHODOLOGY CAPABILITY.

...CURKENT IMPORTANT PROGRAMS
STAND-UFF TARGET ACQUISITION SYSTEM
PUSITION LUCATION REPORTING SYSTEM
SINGLE CHANNEL GROUND AIRBORNE RADIO SYSTEM
C31 SYS TEST CAPABILITY
AUTUMATIC COMMUNICATIONS CENTRAL OFFICE

...FUNCTIONS/EQUIPMENT/CAPAGILITIES
CONDUCT TESTS OF HOWR/SOFTWARE, DUCTRINAL CONCEPTS/SCENARIOS TEST CAPABIL
ITY INCLITEST OF COMM, IMAG, IMAGERY INTERPRETATION MET, RADIAC, RADAR, LASER
INTEL, EW, CMD/CTRL, PWR SOURCES, RPV, GND+SCTY SENSORS SYS/EQUIP INCLIEMC,
EMI, EMV, ECM, ECCM, TEMPEST AND INTRA/INTEROPERABILITY ANALIAS REQ. TECHNIQ
UES INCLIBENCH AND FLD TEST W/ACCESS TO EXTENSIVE REAL EST, MATH MODEL
AND SIM FAGILITIES INCLIEM, CLIMATIC/STRUCT ENVIRON, INSTRUMENTED SPACE
PUS RANGE (3 FPS-16/CAPRI), TEMPEST, C31 SYS TEST INCLIA REALISTIC EM
BATTLEFIELD, ANTENNA PATTERN, ELECTRO-OPT AND VARIOUS ENVIROMENTAL FACILIT
IES INCLINDUCE AR, PERFORM RELIABILITY, AVAILABILITY AND MAINTAINABILITY
(INCLUDE MAINTENANCE MAMUALS, REPAIR PARTS, SPECIAL TOOLS), SAFETY AND HEE
TEST, CONDUCT/PARTICIPATE IN RELATED DOCTRINAL AND CONCEPT STUDIES AND
TEST FOR ARMY, OTHER SERVICES AND DOD AGENCIES.

INSTALLATION: ELECTRONIC WARFARF LABORATURY

ACTG.DIR.MR. MAX ADLER

	PROGRAM DATA BY FISCAL	YEAR (MILLIUN \$)
PRUGRAM	1474	1480
	(ACTUAL)	(ACT + EST)
TUTAL RUTEF	46.159	44.917
TOTAL PROCUREMENT	35.708	33.318
TOTAL UEM	4• ± 25	6.390
TOTAL UTHER	0.000	0.000
TOTAL ANNUAL LAB	86.69%	84.625
TUTAL INHUUSE	33.307	24.096
TUTAL INHOUSE ROTEE	24.202	20.124
ANNUAL OPERATING COST	3.655	4.737

	PEKSUNNEL DATA	LEND OF F	Y 1979)	
PERSUNNEL	AUTHUR1ZED	TUTAL	TUTAL	-אטא
	STRENGTH	PHUS	PRUF	PKOF
MILITAKY	85	1	17	68
CIVILIAN	411	9	248	163
TUTAL	496	10	265	231

		SPACE AND	D PROPERTY			
ACRES	SPACE (THO	TUSANUS UF	SQUARE FFE	ET)	COST (MILL	10N \$)
	LAB	AUMIN	UTHER	TOTAL	KLAL PRUP	EQUIP
6	142.936	37.617	48.502	229.055	92.70	42.461

...MISSION
RES, DEV, INITIAL ACQ AND FIRST FIELDING OF EW AND SELECTED INTEL MATERIAL INCL EW PROTECT OF COMBAT VEHCUS, INTERCEPT, OF, LOCATION, SIG ANALYSIS, ECM.
DECCP, VOLNERABILITY/COUNTERCOUNTERMEASURES, SOFTWARE SUPPORT FOR ERADCOM.
SYS, ACQ NON STANDARD INTEL FECHNICAL MATERIAL.

...CURRENT IMPORTANT PROGRAMS
DEVELOPMENT OF ARTILLERY FIRED/HAND EMPLACED EXPENDABLE JAMMERS
PRODUCTION OF SIGINT EQPT QUICK LOOK, GUARDRAIL, AND QUICK FIX
DEVELOPMENT OF CCM TECHNIQUES FOR SINCGARS
DEVELOPMENT OF ECM AND WARNING EQPT FOR SELF PROTECTION OF COMBAT VEHCL
EW VULNERABILITY INVESTIGATION OF MISSILE SYST, EG PATRIOT, RULAND, DIVAD

...FUNCTIONS/EQUIPMENT/CAPABILITIES
ENCUMPASSES APPLD RUA INCL URC DEV AND SPT IN INTEREPT, DE, SIG ANALYSIS.
JAM, DECEP, SIG INTEL, ACCUUST INTEL, AGT LQUIP, SEC, CM INTEL, VULN AND CCM
TECHNICAL FACILITIES: BIG CROW(KC-135), AIRBURNE EW LABORATORY, IRCM.
SIMULATUR (US AND FUREIGN MISSILES), IK MEASUREMENTS AND REDUCTION.
(ISMS, 15TS, ACFT SIGN), MOB INST FAC, IMOSO PHOTU, PHYS SEC FAC, EWIS
LURC UATA BASE), WAYSIDE TEST AREA (HE, VHE, DE, JUNGSUNDE), ANTENNA RANGE.

FT.MONMOUTH.N.J.

INSTALLATION: ELECTRONICS TECHNOLOGY AND DEVICES LAB

TECH-DIR-DR. C. G. THORNTON

DEP.DIK.MR. S. DANKO

	PROS	SRAM BATA	BY FISCA	L YEAR (MTI	LION S)	
PRUGRAM			1979	101	30	
		(AC	TUAL)	(ACT + ES	f)	
TUTAL ROTEE		2	2.024	34.33	30	
TUTAL PROLURE	MENT		5.795	5.04	40	
TOTAL U&M			0.635	0.5	18	
TOTAL UTHER			0.000	0.00) (
TUTAL ANNUAL	LAU	2	8.454	39.88	8.8	
TOTAL INHOUSE	:	1	4.275	16.50	86	
TUTAL INHUUSE		1	1.876	14.6	69	
ANN AL UPERAT	TING COST		1.039	1.8	5 8	
	PEKSONNE	L DATA (END UF FY	1979)		
PERSONNEL	AUTHUR 1 ZEU		TUTAL	AYOTA	Ĺ	NON-
	STRENGTH		PHUS	PRO	F	PROF
MILITARY	0		O		0	ġ.
CIVILIAN	278		33	16	4	109
TOTAL	278		33	16	9	104
		SPACE AND	PROPERTY			
AURES	SPACE (THOU	SANDS OF	SQUARE FE	ET)	CUST (MILE	LIUN \$)
	LAB	AUMIN	OTHER	TOTAL	REAL PROP	FUUIP
ü	89.500	30.636	7.290	127.426	0.00	14.527

...MISSIUN

TO DEVELUP AN ESSENTIAL BASE IN ELECTRONICS TECH & DEVICES CONSISTENT WITH NEXT GENERATION ARMY SYSTEM OPERATIONAL REQUIREMENTS. TO THIS END, AN APPLIED R&D PROGRAM IS PURSED, FOCUSING ON URITICAL HARRIER DEVICE AND MATERIAL PROBLEMS THAT INHIBIT DEVELOPMENT OF NEW ARMY SYSTEMS.

... CURRENT IMPORTANT PROGRAMS

HI-SPEED & VERY HI-SPEED SIGNAL PROCESSING DEVICES FOR REAL TIME IDENT & LUCATION OF ENEMY EQUIP & WEAPONS. WIDE BAND EFF JAMMING DEVICES, DECOY CUMPONENTS FOR OPERATION FROM EXPENDABLE AB PLATFORMS. MICROWAVE MN-WAVE DEVICES FOR LOCATION IDENT DESTRUCTION OF TARGETS THRU SMOKE INCLEMENT WATHER.LT WE PRORTABLE PWR FOR ARMY HI-PWR PULSERS FOR LASERS/WEAPONS.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

FACILITIES ARE AVAILABLE FOR PERFURMING RSU ON PREPARATION, PROPERTIES & CONTROL OF ELECTRONIC MATERIALS FOR CONDUCTING RSU ON ELECTRONIC PARTS, DEVICES, INTEGRATED CIRCUITS AND ASSEMBLIES. LABORATORIES FOR PERFORMING RSU IN THESE AREAS ARE EQUIPPED WITH THE NORMAL ARRAY OF STANDARD LAB INSTRUMENTATION AND FACILITIES. LABORATORY WORK AREAS INCLUDE FACILITIES FOR THE COMPLETE DESIGN, FABRICATION AND TESTING OF IC. S, HYBRID CIRCUITS ASSEMBLIES, SEMICONDUCTOR DEVICES, QUARTZ CRYSTALS, MICROWAVE AND MM-WAVE DEVICES AND CIRCUITS, FLECTRON OBES AND DISPLAY DEVICES. ALSO, FACILITIES FOR PRIMARY, SECONDARY & SPECIFIC PURPUSE POWER SOURCES, ELECTROCHEMICAL RESEARCH, CHARACTERIZATION OF ELECTRONIC MATERIALS. THE LAB ALSO PROVIDES ARMY CUSTOMERS WITH EXPERT SERVICES INCLUDING, DIRECT RSD DEVELOPMENT, SUPPORT, CONSULTATION AND DIRECT PARTICIPATION IN SYSTEMS DEVELOPMENT.

INSTALLATION: ENGINEER TOPOGRAPHIC LABORATORIES

FY.BELVÜIK, VA.

CDR.CUL. DANIEL L. LYCAN

TECH.UIR.MR. R. P. MACCHIA

	PROGRAM	DATA BY FISC.	AL YEAR (MILLIUN \$)
PRUGRAM		1979	1980
		(ACTUAL)	(ACT + EST)
TUTAL RUTGE		23.253	27.720
TOTAL PROLUKE	MENT	0.000	0.000
TUTAL UEM		2.101	2,141
TUTAL UTHER		0.211	0.225
TOTAL ANNUAL	LAB	25.565	30,086
TOTAL INHOUSE		10.402	12.550
TOTAL INHOUSE	KOTEE	8.994	10.843
ANNUAL OPERAT	ING COST	2.798	3.100
	PERSONNEL DAT	TA (END OF F	Y 1979)
PERSONNEL	AUTHURIZEU	TUTAL	TOTAL

PERSUNNEL	AUTHURIZEU	TUTAL	TOTAL	NUN-
	STRENGTH	PHDS	PROF	PROF
MILITARY	15	1	9	6
CIVILIAN	249	19	173	126
TUTAL	314	20	182	132

		SPACE AN	O PROPERTY			
ACRES	SPACE (THO	USANDS UF	SQUARE FEE	T)	COST (MILL)	(ON \$)
	LAB	ADMIN	UTHER	TOTAL	REAL PROP	EQUIP
33	90.722	7.000	13.300	111.022	6.00	8.713

...MISSION

RESEARCH AND DEVELOPMENT IN TOPOGRAPHIC SCIENCES, MAPPING, POINT POSITION-ING, AND MILITARY GEOGRAPHIC INFORMATION, OPERATIONAL SUPPORT, TERRAIN ANALYSIS, AND SCIENTIFIC/ADVISORY SERVICES. REMOTE SENSING, COMPUTER TECHNOLOGY, ENVIRONMENTAL EFFECTS DATA.

***CURRENT IMPORTANT PROGRAMS
SUPPORT TO PERSHING II
SUPPORT TO MX MISSILE PROGRAM
SUPPORT TO ARMY SPACE PROGRAM
EXPERIMENTAL DIGITAL INTERACTIVE FACILITY
QUICK RESPONSE HULTICOLOR PRINTER

... FUNCTIONS/EQUIPMENT/CAPABILITIES

FACILITIES INCLUDE A CARTOGRAPHIC LABURATORY TO STUDY THE PROBLEMS ASSOCIATED WITH HANDLING DIGITAL CARTOGRAPHIC DATA, A DIGITAL IMAGE PROCESSING LABORATORY TO STUDY THE MANIPULATION AND ENHANCEMENT OF TERRAIN IMAGERY FOR OBTAINING MAPPING AND GEOGRAPHIC DAYA, COMPUTER ASSISTED PHOTO-INTERPRETATION STATIONS FOR EXTRACTION OF TERRAIN FEATURES, AND A COMERCHT OPTICS LABORATORY FOR DETERMINING THE POTENTIAL OF COMERCHT OPTICS FOR TOPOGRAPHIC DATA PROCESSING. COMPUTATIONAL EQUIPMENT INCLUDES THE COC. 6400, GOODYEAR STARAN S-1000, DEC PUP 1150 AND PUP 1270. OTHER SPECIALIZED EQUIPMENT INCLUDE A COMTAL, DICUMED, POS DIGITAL AUTOMATED MICRODENSITOMETERS, A RECORDING OPTICAL SPECTRUM ANALYZER AND PRECISION MENSURATION EQUIPMENT.

INSTALLATION: ENGINEER WATERWAYS EXPERIMENT STATION

VICK SBURG. MS.

CUR.CUL. NELSON P. CUNUVER

TECH-UIR-MK. F. R. BROWN

	PROGRAM DA	TA BY FISCA	L YEAR (MILLION	\$)
PRUGRAM		1979	1980	
	(ACTUAL)	(ACT + EST)	
TUTAL ROTEE		16.227	18.235	
TOTAL PROCURE	MENT	0.000	0.000	
TUTAL UEM		0.186	0.220	
TOTAL UTHER		42.252	47.345	
TO FAL ANNUAL	LAB	58.665	45.800	
TOTAL INHOUSE		47.240	52.000	
TUTAL INHUUSE	RUTEE	14.218	15.045	
ANNUAL UPERAT	ING COST	8-124	9.511	
	PERSUNNEL UATA	(END UF FY	1979)	
PERSUNNEL	AUTHURIZEU	TOTAL	TOTAL	NUN-
	STRENGTH	PHDS	PROF	PKOF
MILITARY	16	0	3.7	1
CIVILIAN	1381	81	493	888
TUTAL	1377	81	510	889

		SPACE AN	U PRUPERT	Υ		
ACRES	SPACE (TH	BUSANUS OF	SQUARE F	HET)	COST (MILL	10N \$)
	LAB	NIMUA	UT HER	TOTAL	REAL PRUP	FOULP
722	1724.058	359.819	170.488	2254.365	20.62	37.524

...MISSION

MILECTY FUNDED RSCH, DEVETNVES IN HYD, ECULOGY, PERMEEXPEDIENT PAVEMENTS, SUIL, CUNCRE FE, EXPLO WPN EFF, EXPLO EXCAVATION, VEH MOBILITYEENVIRONMENTAL ASPECTS OF MIL OPERATIONS. OPERATE TECH LIBRARYEGOVERNMENT CEMENTEPUZZOLAN TEST PROGRAM. SERVES CE, DARCOM, DNA, DOE, AF, NAVY, EPA & OTHER AGENCIES.

... CURRENT IMPURTANT PRUGRAMS

HYDEMATH MUDELING TO SOLVE RIVER, FIDAL, WIND-WAVE, ECOLOGICALESTRUC PROBSERSCH ON VEH MOBILITY, REMOTE SENSING, ENVIR IMPACTS, & EARTHQUAKE DSGN CRIT. NUCEHE RSCH TO DEV CRIT FOR ED DE PROTECTIVE STRUC, BARRIERS & EXCAVATIONS. RSCH, DEVEFORMULATION DE NEWEIMP ENG GRIT ON RUADS, STOR AREAS, & AIRFIELDS. INVES OF CEMENTITIOUS MATERIALS AND RSCH OF MASS AND STRUCTURAL CONCRETE

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CAPABLE OF PERF GEN INVES IN FLD OF HYD, SOIL MECH, CONCRETE, MOBILITY OF
MIL VEH, EXPLO EFF, ECOLOGY&EXPLO EXCAVATION AND DEV OF STRUC & PAVEMENTS
DESIGN CRIT. THRU BR&APPLIED RSCH, THE CAPABILITY OF DEV METHODS&TECH AND
THE TESTING OF MAT&EQUIP IS EXERCISED TO ASST IN ACCOMPMT OF THE CE MSN.
WES RESERVATION CRIT BLOGS, TEST SITES, SPECIAL EQUIP&OTHER PLANT FAC.
TEST SITES&FAC FOR SP PURPOSES ARE MAINT IN OTHER AREAS ON PERM OR TEMP
BASIS. FAC INCL FLUMES OF DIFF TYPES&SIZES, WAVE&TIDE GENR MACH, DRILL
EQUIP, FULLY EQUIPED SULLS, CONCRETE, CHEMISTRY, CALBR, ELCT&TEMPERATURE CON
ENVIRONMENTAL MODEL LABS, X-RAY DIFFRACTION&SPECTRUSCOPY APPAR, LARGE AND
SMALL BLAST LOAD GENERATOR, 200K DYNAMIC LOADER, MOBILITY RSCH FAC, SINGLE
AND MOLTIPLE WHEEL LOAD CARTS, SUR EFF BLAST FAC, HIGH&LOW FREQ VIBRATORS,

ELECTRUM MICKUSCUPE, LAKGE SCALE CMPT FAC AND TECH LIBRARY.

TOTAL REAL PRUP

3.33

68.703

EQUIP

1.680

PRES.CUL. M. J. KLINNE, JR.

	PROGRAM DA	TA BY FISCAL	YEAR (MILLIUN	s)
PRUGRAM		1979	1980	
	•	ACTUAL)	(ACT + EST)	
TUTAL KUTEE		1.242	1.383	
TOTAL PROCUREN	MENT	0.139	0.172	
MAU JATUT		0.129	0.061	
TUTAL UTHER		2.114	2.506	
YOTAL ANNUAL L	.AB	3.624	4.122	
TOTAL INHOUSE		3.624	4.122	
TOTAL INHOUSE	ROTEL	1.242	1.383	
ANNUAL UPERATI	ING COST	0.245	0.245	
	PERSONNEL JATA	(END OF FY	1979)	
PERSONNEL	AUTHURIZED	TUTAL	TOTAL	NUN-
	STRENGTH	PHDS	PROF	PROF
MILITARY	152	0	29	123
CIVILIAN	37	0	3	34
TOTAL	189	o	32	157
	SPACE A	NO PROPERTY		
ACRES	SPACE (THOUSANDS O	F SQUARE FE	ET CUST	(MILLION \$)

OTHER

13.335

...MISSION
PLAN CUNDUCT AND REPURT ON OT I OT II AND OTHER USER-TYPE TESTS
PARTICIPATE IN OT I AND OT II AS DIRECTED
PROVIDE ADVICE TO PROPONENT AGENCIES AND DEVELOPERS
CONDUCT OTHER TESTS AND EVALUATIONS AS DIRECTED BY TRADOC

ADMIN

32.802

...CURRENT IMPURTANT PROGRAMS

UPERATIONAL TEST II XM736

UPERATIONAL TEST II SMALL UNIT TRANSCEIVERS

UN-SITE USER TEST FIREFINDER RADAR UPER TRAINER

UPERATIONAL TEST II XM753

UPERATIONAL TEST II COMM MODE SELECTOR CONTROL

LAH

22.566

2.3

...FUNCTIONS/LQUIPMENT/CAPABILITIES
UNE MET STATION
TEST ITEMS AUDITIONAL SUPPORT IS OBTAINED FROM USAFACES WHEN NEEDED

INSTALLATION: FIRE CONTROL & SMALL CAL. WPNS SYSTS LAB

DOVER . N. J.

CDR.CUL.AARUN J.LARKINS

DEP. DIR. DR. DUNALU A. GYURUG

	PRUGRAM DA	SA BY FISCA	L YEAR IMILLION	\$}
PROGRAM		1979	1980	
	·	ACTUAL)	(ACT + EST)	
TUTAL RUTEE		23.264	12.443	
TUTAL PRUCURE	MENT	14.768	6.723	
TUTAL ULM		0.000	0.000	
TUTAL UTHER		0.286	0.270	
TUTAL ANNUAL	LAB	36.318	14.436	
TOTAL INHUUSE		20.244	10.629	
TOTAL INHOUSE	ROTAE	12.089	8.493	
ANNUAL UPERAT	ING COST	11.484	13.522	
	PERSUNNEL DATA	(eND UF FY	(1979)	
PEK2DNNEL	AUTHURIZED	TUY AL	TUTAL	NUN-
	STRENGTH	PHDS	PRUF	PROF
MILLTARY	13	0	11	2
CIVILIAN	566	22	370	196
TUTAL	579	22	391	198
	SPACE A	IND PROPERTY		
ACRES	SPACE (THOUSANDS D			(MILLION \$)
		UTHEK		PROP EQUIP
3.91	61.183 76.990	0.000	138.173	2.29 7.770

...MISSION

ACCUMPLISH EXPLORATORY, ADVANCED AND ENGINEERING DEVELOPMENT AND LIFE LYCLE TECHNICAL RESPONSIBILITY FOR FIRE CONTROL AND ALL WEAPON SYSTEMS AND ANCILLARY ITEMS THROUGH 40MM. FIRE CONTROL RESPONSIBILITY INCLUDES ALL VEHICLES, FIELD ARTILLERY, HELICOPTERS, AIR DEFENSE AND INFANTRY.

...CURRENT IMPURTANT PROGRAMS
JUINT SERVICE SMALL ARMS PROGRAM
FIRE CONTROL AND SMALL CALIBER ARMAMENT TECHNOLOGY
SQUAD AUTOMATIC WEAPON
NATU SMALL ARMS HIELD EVALUATION
MURTAR HIRE CONTROL CALCULATOR

... FUNC TIONS/EQUIPMENT/CAPABILITIES

THE LABURATURY CUNDUCTS RESEARCH, EXPLORATORY, ADVANCED AND ENGINEERING DEVELOPMENT IN GON FIRE CONTROL AND SMALL CALTRER WEAPON SYSTEMS. IT MAINTAINS TEST BED FACILITIES WHICH PERMIT EVALUATION OF SYSTEMS IN THE COMMUNITY AREAS OF FIRE CONTROL, AIR DEFENSE AND COMBAT VEHICLES. THE LAB HAS THE CAPABILITY FOR DESIGN AND EVALUATION OF OPTICAL SYSTEMS, MATERIALS AND SIGHTING DEVICES, DIGITAL AND ANALOG SIGNAL PROCESSORS AND GUNZTURRET STABILIZATION AND CONTROL SYSTEMS, SMALL CALIBER WEAPONS, WEAPON MECHANISMS AND MOUNTS, PROJECTILES, PENETRATORS, SHAPED CHARGE LINERS, PROPELLANTS, PRIMERS AND CARTRIDGE CASES. JOINT SERVICE SMALL ARMS PROGRAM, JSSAP FOR CONVENTIONAL AND SPECIAL WEAPON SYSTEMS.

SDR.COL. CLIFTON R. GODDWIN TECH-DIR-DR. WILLIAM W. CARTER

	PRUGRAM DATA BY FISCAL	
PRUGRAM	1979	1980
	(ACTUAL)	(ACT + EST)
TOTAL ROTGE	72,769	82,571
TOTAL PROCUREMENT	90.378	66.235
TÜTAL UEM	4.141	4.114
TOTAL UTHER	1.419	1.130
TUTAL ANNUAL LAB	168.707	154.050
TUTAL INHUUSE	48.100	50.218
TUTAL INHUUSE ROTEE	33.019	38.301
ANNUAL UPERATING COST	12.800	13.500

	PERSONNEL DATA	LEND UP FY	Y 1979)	
PERSONNEL	AUTHORIZED	TUTAL	TÜTAL	NON-
	STRENGTH	20H9	PRUF	PROF
MILITARY	6	1	5	1
CIVILIAN	1148	51	453	695
TUTAL	1154	5 8	458	696

SPACE AND PROPERTY						
ACRES	SPACE (THE	JUSANUS OF	SQUAKE FE	ET)	CUST (MILL	YON s)
	LAB	ADM1N	UTHER	TOTAL	REAL PROP	EQUIP
2337	430.802	71.090	264.573	771.465	50.38	38.746

...MISSIUN

THE PARTY OF THE P

MISSIUN: ELECTRONIC FUZES, NUCLEAR WEAPUNS EFFECTS TOCHNOLOGY, SPECIAL RADAR TECHTY AND SYSTEMS, ELECTRUNICS TECHTY, COMPONENTS, CIRCUITS AND MATERIALS, FLUIDIC COMPONENTS AND SYSTEMS, ELECTRO-OPTICAL DEVICES. SELECTED INSTRUMENTATION/SIMULATORS, COUNTERMEASURES (CM) AND COUNTER-CM

... CURRENT IMPORTANT PROGRAMS

CURRENT SIGNIFICANT PROGRAMS: DEV OF XM81881 FUZE FOR PATRIOT MISSILE RAD ON FLUIDICS, ORDNANCE ELECTRONICS, NUCLEAR WEAPONS EFFECTS AND NMMW DEVELOPMENT OF XM445 FUZE FOR GENERAL SUPPORT ROCKET SYSTEM DEVELOPMENT OF XM749 AND M735 FUZES FOR 155MM AND 8 TN NUCLEAR ARTILLERY DEV OF ART! Y DELIVERED EXPENDABLE JAMMERS; INSTALLATION SECURITY RADAR

...FUNCTIONS/EQUIPMENT/CAPABILITIES
MAJUR EQUIPMENT AND FACILITIES:
NUCLEAR FACILITIES: GAMMA RAY SIMULATOR (AURURA), HIGH INTENSITY FLASH
X-RAY (HIFX), COBALT GO, AND ELECTROMAGNETIC PULSE SIMULATORS.
ELECTRONIC DESIGN FACILITIES: THICK FILM HYBRID CIRCUIT FACILITIES;
MICRUWAVE ANECHOIC CHAMBER, GAITHERSBURG TEST AREA
FUZING FACILITIES: ARTILLERY SIMULATUR, ENVIRONMENTAL TESTING,
BLUSSOM PUIN TEST AREA, MAGNETIC SIGNATURE FACILITY.

DIR.DR. JOHN D. WEISZ

	PR	OGRAM DAT	A BY FISCA	L YEAR (MI	LLIUN \$.)
PRUGRAM			1479	19	80	
,		(A	CTUAL)	(ACT + ES	Τ)	
TUTAL RUTSE			8.621	8.6		
TUTAL PROCURE	EMENT		0.084	0.1	00	
TOTAL USM			0.344	V-3	00	
TOTAL UTHER			0.384	0.4		
TOTAL ANNUAL	LAR		9.433	9.5		
TUTAL INHOUSE	÷		å.098	8.3	22	
TOTAL INHOUSE	HOTEE		7.292	7.4	.97	
ANNUAL OPERAT	TING COST		3.414	3.4	72	
	PERSUNN	IEL DATA	(END OF FY	1979)		
PERSONNEL	AUTHURIZED		TUTAL	TUTA	L	NON-
	STRENGTH		PHDS	PRO	¥	PROF
MILITARY	33		1		Ċ	23
CIVILIAN	142		15	10	3	39
TOTAL	174		16	11	_	62
		SPACE AN	ID PROPERTY	,		
ACRES		SUNAZUS OF	SQUARE FE	ET)		(MILLION \$)
				TOTAL		PROP EQUIP
12	22,000	26.500	24.000	77.500	4.	41 3.806

...MISSIUN

CUNDUCTS FUNDAMENTAL AND APPLIED RESEARCH IN HUMAN FACTORS ENGINEERING. PROVIDES DIRECT DESIGN SUPPORT TO ALL MATERIEL DEVELOPMENT PROGRAMS SPON SORED BY DARCOM. FOURTEEN DETACHMENTS AND/OR LIAISON REPRESENTATIVES HAVE BEEN ESTABLISHED AT DARCOM COMMANDS, CRTC AND TRADUC CTRS/SCHOOLS.

...CURRENT IMPORTANT PROGRAMS
CUNDUCT HELBAT TESTS/MAJOR ARTILLERY FIELD TRIALS
DEVELOPED A CONCEPT DRAGON TRIPOD
UETERMINE WEAKNESSES IN SPARE PARTS UNDERING
FEMALE SULDIER PERFORMANCE TASKS
HUMAN FACTORS ENG IN SPT OF ALL MATERIEL BEING DEVELOPED BY DARCOM

...FUNCTIONS/EQUIPMENT/CAPABILITIES
UATA ACQUISITION AND BIUTELEMETRY SYSTEMS
GAT 2M HELICUPTER SIMULATOR
COMMAND CUNTROL SIMULATOR SYS AND TEST FACILITY
ACQUISTICAL RSCH ANEHDIC CHAMBER REVERBERANT ROOM
LUNG RANGE PUSITIONED DETERMINING SYS
INSTRUMENTED PHYSICAL ENDURANCE COURSE
EYE MOVEMENT MEASURING DEVICE
SMALL ARMS TEST FIRING RANGE
NUISE MEASUREMENT & ANALYSIS INSTRUMENTATION
WOUD AND METAL WURKING TEST SUPPORT CAPA"ILITY
HUMAN PERFURMANCE DATA BANK
ARMUR TEST SITE

UNACH YSTNAHMI ENUITALIATEN

PRES.CUL. ARTHUR J. KINZEL

PILLGRAM

TOTAL RUTEE

TOTAL USM TOTAL UTHER TOTAL ANNUAL LAS

TOTAL PROCUREMENT

MR. CHARLES H. COSTIGAN

PRUGRAM	DATA	BY	LI2CAL	YEAR	< (WILLION	3 /
		197	9		1980	
	(ACI	I AL)	TACT	+ E5T)	
	1	1.56	3		1.999	
	().()3	6		0.341	
	(1.03	7		0.056	
	1	1.59	O		1.800	

4.196

3.226

TUTAL INCOUSE	3.226	4.196
TOTAL INHOUSE RITEE	1.563	1.999
ANNUAL UPERATING COST	1.053	1.094

	PERSUNNEL DATA	(END UF F	Y 1979)	
PERSONNEL	AUTHURIZED	TUTAL	TOTAL	NUN-
	STRENGTH	PHDS	PRUF	PROF
M1L).TARY	122	0	3	119
CIVILIAN	55	Ĭ	5	50
TUTAL	177	1	8	169

SPACE AND PROPERTY						
ACRES	SPACE (THU	IJSANUS UF	SQUARE FEET)	CUST (MILL	ION \$)
	LAB	ADMIN	UTHEK	TOTAL	REAL PROP	EQUIP
1	0.000	32.203	30.156	62.359	0.90	0.818

...MISSIUN
PLAN CUMBUCT REPORT ON OPERATIONAL TESTS 1/2/3, FORCE DEVELOPMENT TESTS
& OTHER TESTS OF EQUIPMENT & ANCILLARY ITEMS TO BE USED BY INFANTRY
UNITS FOR COMMAND, CONTROL, FIREPOWER, TARGET ACQUISITION, GROUND SURVEILLANCE, FIRE CONTROL GROUND MOBILITY & TNG & CHEMICAL/BIOLOGICAL EQUI

...CURRENT IMPURTANT PROGRAMS
VIPER UT XI
SQUAD AUTOMATIC WEAPON (SAW OTEA)
HIGH MOBILITY MULTIPURPOSE WHEELED VEHICLE OT XI
SMALL UNIT TRANSCEIVER UT II
XM30 PROTECTIVE MASK OT II

***FUNCTIONS/EQUIPMENT/CAPABILITIES
AUTUMATED CUMPUTERIZED AUTUMATIC & SMALL ARMS WEAPONS RANGE
CLUTHING & EQUIPMENT TEST FACILITY
MANNED EVASIVE TARGET TANKS
NUVA 312 CUMPUTER CAPABILITIES

INSTALLATION: INSTITUTE OF DENTAL RESEARCH

WASHINGTON.D.C.

CUR -CUL - DUANE E. CUTRIGHT RSCH-CUORD-DR. GIND HATTISTONE

PRÙ GR AM		4 11 11 11		
		1979	1980	
	•	(ACTUAL)	(ACT + EST)	
TOTAL ROTER		2.268	2.299	
TOTAL PROLUKE	MENT	0.000	0.000	
TOTAL UEM		0.167	0.152	
TUTAL UTHER		1.266	1.352	
TOTAL ANNUAL	LAH	3.701	3.803	
TUTAL INHOUSE		2.641	2.745	
TOTAL INHOUSE	ROTEE	1.208	1.241	
ANNUAL OPERAT	ING COST	0.614	0.569	
	PERSONNEL DATA	(END OF FY	1979)	
PERSONNEL	AUTHURIZED	TOTAL	TOTAL	NON-
	STRENGTH	PHDS	PROF	PROF
MILITARY	80	2	40	40
CIVILIAN	26	2	11	15
TUTAL	106	4	5.	55

		SPACE AND) PRIIVERTY			
ACRES	SPACE (THU	USANDS OF	SQUARE FEET)	CUST IMILLI	(UN \$)
	LAB	AUMIN	UTHEK	TOTAL	REAL PROP	EQUIP
4	9.325	5 • 696	6.730	21.751	0.87	1.791

...MISSION

DEVELUP TECHNIQUES TO TREAT WAR RELATED MAXILLOFACIAL INJURIES AND DENTAL DISEASES.PREVENTION AND CONTROL OF DENTAL DISEASE.TO PROVIDE DENTAL RESIDENCY PROGRAMS.TO PROVIDE A DENTAL CLINIC FOR RESEARCH AND TRAINING

... CURRENT IMPURTANT PROGRAMS

BIDDEGRADABLE MATERIALS FOR LONG TERM SLUW RELEASE AND ORGAN REPLACEMENT USE OF SALIVA FOR DETECTING EXPUSURE TO CHEMICAL AGENTS IN THE FIELD R&D OF NEW AND IMPROVED DENTAL MATERIALS FOR MILITARY USFAGE WORLD-WIDE STUDIES ON METHODS OF IMPROVING COMBAT COTAMINATED WOUND HEALING STUDIES FOR IMPROVING METHODS OF CONTROLLING INFECTIONS IN COMBAT WOUNDS

... FUNC TIONS/E JUIPMENT/CAPABILITIES

TEST AND EVALUATE THE PHYSICAL, CHEMICAL AND MFCHANTCAL PROPERTIES OF DENTAL METALS, ALLOYS, PLASTICS AND POLYMERS. EVALUATE CHANGES DUE TO ENVIRONMENT AND TRANSPORTATION. CONDUCT RESEARCH IN MICROBIOLOGY, CHEMISTR BIOCHEMISTRY, IMMUNDLUGY, RADIATION EFFECTS, PHARMACOLOGY, PHYSIOLOGY, HISTOLOGY AND PATHOLOGY AS THEY RELATE TO DENTAL MILITARY RESEARCH. CONDUCT EPIDEMIDLUGICAL STUDIES ON TRAUMA, DISEASE MAN MACHINE INTERFACE TRAUMA AND FIELD DENTAL EMERGENCIES. STUDY MEANS OF PREVENTING ORAL DISEASE. STUDY THE PSYCHOLOGY OF DENTAL TREATMENT ACCEPTANCE. STUDY NEW MATERIALS AND METHODS MURE CLINICALLY EFFECTIVE IN THE FIELD. DEVELOP AND EVALUATE NEW TECHIQUES AND NEW MATERIALS TO TREAT COMBAT WOUNDS AND TO TEST THESE IN VARIOUS BIOLOGIC MEDIA. DISSEMINATE AS PRACTICAL ALL INFORMATION TO THE FIELD.

FT.SAM HOUSTUN.TX.

INSTALLATION: INSTITUTE OF SURGICAL RESEARCH

CDR CUL. BASIL A. PRUITT, JR.

THE REPORT OF THE PARTY OF THE

	PŔÚ	GRAM DATA	BY FISCA	L YEAR (MIL	LION \$1	
PRUGRAM			1979	198	0	
		€ AC	CTUAL)	TACT + EST	}	
TUTAL ROTEE			2.057	2.12	9	
TOTAL PROCURE	HENT		0.000	0.00	Ó	
TUTAL ULH			0.000	0.00	0	
TOTAL OTHER			2.265	2.49	0	
TOTAL ANNUAL	LAB		4.322	4-61	9	
TOTAL INHUUSE			4.322	4.61	9	
TOTAL INHOUSE	ROTEL		2.057	2.12	9	
ANNUAL UPERAT	ing cost		0.908	1.02	4	
	PERSONNE	LOATA	(END OF FY	1979)		
PEKSONNEL	AUTHORIZED		TUTAL	TUTAL		NO.1-
	STRENGTH		PHDS	PROF	1	PROF
MILITARY	149		22	51		98
CTVILIAN	80		6	19	•	61
TUTAL	229		28	70)	154
		SPACE AN	D PKUPERTY	•		
ACRES	SPACE (THU				COST (MI)	
	LAB	NIMUA	UTHER	TOTAL		
1	26.424	1.800	22.400	50.624	2.31	2.200

...MISSION
CONDUCTS BASIC AND ULINICAL RESEARCH ON SEVERE BURN INJURIES AND THEIR
COMPLICATIONS. PROVIDES TREATMENT FOR BURNED PATIENTS AND TRAINS SPECIFIED PERSONNEL IN THE TOTAL MANAGEMENT OF SUCH PATIENTS. OPERATES 30
BEDS FOR HOSPITALIZATION OF SERIOUSLY INJURED BURN PATIENTS.

...CURRENT IMPURTANT PROGRAMS
BURN INFECTION, TREATMENT AND PREVENTION
METABOLISM AND NUTRITIONAL EFFECTS OF BURN INJURY IN SOLDIERS
INFECTION AND MICROBIOLOGIC SURVEILLANCE OF TROOPS WITH THERMAL INJURY
ALTERATION OF HOST RESISTANCE IN BURNED SOLDIERS
ASSESSMENT OF L-TRIDOOTHYRONINE THERAPY IN THERMALLY INJURED SOLDIERS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
PHOVIDES CLINICAL AND LABORATORY SUPPURT AND RESEARCH CAPABILITY IN THE
FIELDS OF PATHULOGY, INCLUDING USE OF ELECTRON MICROSCOPE, MICROBIOLOGY,
EXPERIMENTAL SURGERY, PHYSIOLOGY, AND BIOCHEMISTRY, MAINTAINS AN ANIMAL
COLUNY, ELECTRONIC SHOP, SURGICAL LIBRARY, METABOLIC CHAMBER, AND
COMPUTER FACILITY.

INSTALLATION: INTELLIGENCE & SECURITY BOARD

FT HUACHUCHA, AR.

PRES.COL. ROGER L. DUNLAP

TECH.DIR.MR. PHILLIP E. WRALSTAD

	PROGRAM DATA BY FISC	AL YEAR (MILLION \$)
PRUGRAM	1979	1980
	(ACTUAL)	(ACT + EST)
TUTAL ROTEE	2.759	3.367
YOTAL PROCUREMENT	0.652	1.047
TOTAL UEM	0.000	0.000
TOTAL OTHER	Ü.UOO	0.000
TOTAL ANNUAL LAS	3.411	4.414
TOTAL INHOUSE	1.041	1.392
TUTAL INHUUSE RUTGE	1.041	1.392
ANNUAL UPERATING COST	0.428	0.627

	PERSUNNEL DATA	LEND UF FY	1979)	
PERSONNEL	AUTHURIZED	THTAL	TOTAL	-אטא
	STRENGTH	PHDS	PRUF	PROF
MILITARY	43	0	23	70
CIVILIAN	24	2	8	16
TUTAL	117	2	31	86

		SPACE AN	U PRUPERTY			
ACRES	SPACE (THO	USANDS UF	SQUARE FEE	T)	CUST (MILL	ION S)
	LAB	ADMIN	UTHER	TOTAL	REAL PROP	FOUIP
10	0.000	5.000	42.663	47.663	0.02	1.659

PLAN, COMBUCT AND REPORT ON OT 1,0T 11,0T 111 AND OTHER USER TYPE TESTS OF TACTICAL INTELLIGENCE AND SECURITY MATERIAL. PROVIDE ADVICE ON TEST AND EVAL MATTERS TO MATERIAL DEVELOPERS, PRODUCERS, OTHER SERVICES AND PRIVATE INDUSTRY. CONDUCTS TEST AND EVAL AS DIRECTED BY COR, TRADOC.

...CURRENT IMPORTANT PROGRAMS
QUICK FIX WITHOUT OF ANZARQ 33
STANDARD FM RADIO ECM APPLIQUE
TACTICAL CONTROL ANALYSIS CENTER (DIVISION)
MUBILE ARMY GROUND IMAGERY INTERPRETATION CENTER
REMOTE BATTLEFTELD SENSOR SYSTEM

***FUNCTIONS/EQUIPMENT/CAPABILITIES
ELECTRUNIC MAREAPE MUNITORING FACILITY (EMME)-TRANSPORTABLE- HOUSED IN A
30 FT ELECTRUNIC VAN WITH FULLOWING CAPABILITY**RECEIYERS-10KH2-26GHZ,
ANTENNAS-30MHZ-40GHZ, TAPE RECURDERS, SPECTRUM ANALYZERS, OSCILLOSCOPES,
REDUIRES 5 TON TRACTOR FOR TOWING-UTHER FACILITIES INCLUDE OVER TOORO
ACRES AT FT HUACHUCA, 23000 ACRES AT WILLOUX DRY LAKE AND 1505000 ACRES
AT GILA BEND (UPUN REQUEST) THAT CAM BE USED AS RANGES FOR OPERATIONAL
TESTING OF INTEL/EW SYSTEMS.

INSTALLATION: KWAJALEIN MISSILE RANGE, MARSHALL ISLANDS

APO SAN FRANCISCO

CDR.CUL. R. A. PARSUNS

DEP.DIR.MR. U. É. UVA

	i) ii	AN MARLIN	TA BY ETSCA	L YEAR (MILL	ION ()
PRUGRAM	, ,	NOONAII DA	1979	1980	
		((ACT + EST)	
TUTAL RUTGE			100.940	112.017	7
TUTAL PROCURE	MENT		0.000	0.000)
TUTAL UEM			0.000	0.000	
TUTAL UTHER			7.720	3.720)
TUTAL ANNUAL	LAS		108.660	115.737	
TUTAL INHOUSE			5.670	5.923	3
TUTAL INHUUSE	ROTEE		4.890	5.103	5
ANNUAL UPERAT	ING COST		0.450	0.500)
	PERSUN	NEL DATA	(END UF FY	1979)	
PERSUNNEL	AUTHURIZED)	TUTAL	TOTAL	NON-
	STRENGT	+	PHDS	PRUF	PROF
MILITARY	2^	7	O	17	10
CIVILIAN	103	3	1	52	51
TUTAL	130)	1	69	61
		SPACE A	NU PROPERTY	•	
ACRES	SPACE (THO				COST (MILLIUN \$)
	LAB				REAL PROP EQUIP
1491	0.000	158.047	2305.824	2463.871	592.83 160.456

...MISSION

PLAN, MANAGE, DIRECT, CONTROL AND COURDINATE OVERALL ACTIVITIES OF THE KMR IN ACCURDANCE WITH OOD NATIONAL RANGE POLICIES. SERVE AS THE PRINCIPAL ADVISOR FOR AL MATTERS PERTAINING TO THE KMR RELATIONSHIP WITH THE TRUST TERRITORY OF THE PACIFIC ISLANDS.

***CURRENT IMPURTANT PROGRAMS
BALLISTIC MISSILE DEFENSE R&D TESTING
AUVANCED BALLISTIC REENTRY SYSTEMS USAF BMO R&D TESTING
MINUTEMAN 11 USAF BMU R&D TESTING
MINUTEMAN 11 AND MINUTEMAN 111 USAF SAC OPERATIONAL TESTING
SPACE OBJECT IDENTIFICATION USAF SPACE TRACK

...FUNCTIONS/EQUIPMENT/CAFABILITIES
ALCUR, TRADEX, ALTAIR, 2 AN/MPS 36, AN/TPW 18, AN/TPX 42 RADARS, 4 RADOTS, 3
SUPER RADUTS, 7 BALLISTIC CAMERAS, 4 SPECTRAL CAMERAS, PHOTO LAH. 5 BAND
TELEMETRY RECEIVING SYSTEMS INCL 8 AUTO TRACK ANTENNAS, 1 MOBILE RELAY
SYS, RECEIVE & RECORD SYS, DATA SEPARATION AND DISPLAY SYS & DATA DISTRIB
SYS, LUNG HAUL & INTRA A FULL COMMO SYS, METEOROLOGICAL SYS, LAUNCH ORDNANCE
LAB, TIMING & COUNTDOWN SYS, FREQUENCY CONTROL & ANALYSIS SYS, 7600/6400
INSTRUMENTATION CONTROL CENTER, AIR TRAFFIC CONTROL SYS INCL TACAN LOW
FREQUENCY HOMING BEACON & AG COMMUNICATIONS, CLOSED CIRCUIT TV SYS, DATA
REDUCTION FACILITY & INSTRUMENTATION SYS ACCURACY ANALYSIS CAPABILITY

CDR - CUL - D - P - WHALEN

DEP. DIR. DR. J. T. FRASIER

	PRUGRAM DATA BY FISCAL	YEAR (MILLION)
PROGRAM	1979	1980
	(ACTUAL)	(ACT + EST)
TOTAL KUTSE	130.292	97.691
POTAL PROCUREMENT	21.600	19.000
TUTAL UEM	5.000	1.000
TOTAL UTHER	0.411	0.383
TOTAL ANNUAL LAN	157.303	118.074
TOTAL INHOUSE	71.159	51.045
TOTAL INHOUSE ROTEE	57.348	41.662
ANNUAL UPERATING CUST	31.069	44.196

	PERSUNNEL DATA	LEND OF FY	Y 1979)	
PERSONNEL	AUTHURIZED	TOTAL	TOTAL	NUN-
	STRENGTH	PHUS	PRUE	LKO+
MILITAKY	28	Ú	23	5
CIVILIAN	1763	81	10 88	675
TUTAL	1791	81	1111	630

		SPACE AN	D PROPERIT			
ACRES	SPACE (TH	UUSANDS OF	SQUAKE FE	ET)	COST (MILL	(* NÚ].
	LAB	AUMIN	UTHER	TUTAL	REAL PROP	EQUIP
12.51	204.685	184.072	120.700	517.457	8.58	66.200

...MISSION

DEVARSO WPNS SYS-GUNZAMMO-40MM&FOR TANKS, ARTY, MORTAR, RECOILLESS GUNS AIR DEFENSE, MINESADEMO SYS, CXPLOS&WHOS SUPPORT TECH IN BASIC&APPLIED RES-LIFE CYCLE ENG&WPN SYS INTEGRATION ENG SUPPT DURING PROCUREMENT, PRODUCTION&FIELD USE OF WEAPON SYSTEM

...CURRENT IMPORTANT PROGRAMS
SPT XM1 TANK-12UMM AMMU/GUN
SCATTERABLE MINE SYSTEMS-MUPMS, GEMS,
ARTILLERY-ESPAWS.GUN PRUPULSION INCL CHG DSG, KEDUCTION WEAR&EROSIUN,
IMPROVED SENSING MUNS-TARG SENS&SELF FORG FRAG WHD-STAFF, SADARM
IMPROVED NUN-NUCLEAR LANCE, PERSHING 2

...FUNCTIONS/EQUIPMENT/CAPABILITIES
DESGRS1 WPNS SYS-GUNZAMMO-40MM&FUR TANKS, ARTY, MORTAR, RECUILLESS GUNS,
AIR DEFENSE, MINES&DEMOLITION SYS, EXPLOSIVES&WARHEADS
SUPPORT TECH IN BASIC&APPLIED RESEARCH
LIFE CYCLE ENG&WEAPON SYS INTEGRATION
ENG SUPPT DURING PROCUREMENT, PRODUCTION&FIELD USE OF WEAPON SYSTEMS

CDR.CUL. JUHN D MARSHALL, JR.

	PR	UGRAM DAT	A BY HISCA	L YEAR (MI	LLION \$)	
PROGRAM			1979	19		
		l A	CTUAL	(ACT + ES	T)	
TOTAL RUTEE			6.413	5.1	35	
TUTAL PROCUREN	4ENT		0.000	0.0	(10	
TOTAL OWN			0.090	0.2	5 0	
TUTAL UTHER			2.557	2.5	97	
TOTAL ANNUAL I	_A B		9.060	7.9	82	
TOTAL INHOUSE			9.060	7.9	82	
TUTAL INHOUSE	ROTEE		0.413	5.1	35	
ANNUAL OPERAT	ING COST		2.316	12.0	65	
	PERSONN	EL DATA	CEND OF FY	1979)		
PERSONNEL	AUTHURIZED		TATEL	TOTA	L	NON-
	STRENGTH		PHDS	PRO	F	PROF
MILITARY	170		31	12	5	45
CIVILIAN	108		18	5	6	52
TOTAL	278		49	18	1	97
		SPACE AN	U PROPERTY	•		
ACRES	SPACE LIHU	USANOS UI	SQUARE FE	ET)	COST (MILI	LION \$)
	LA8	NIMUA	OTHER	TOTAL	REAL PROP	EQUIP
9	133.198	36.506	305.309	475.013	42.42	10.333

...MISSIUN

TU PROVIUE GENERAL MEDICAL RESEARCH CAPABILITY AND CONDUCT RESEARCH IN AREAS OF NOTRITION, FOUL WHOLESOMENESS, DERMATOLOGY, CHRUNIC MAMMALIAN TOXICOLOGY, EFFECTS OF LASERS, EXPERIMENTAL PSYCHOLOGY, TRAUMA, RESUSCITATION AND OTHER RESEARCH AS DIRECTED BY COR USAMRDO.

...CURRENT IMPORTANT PROGRAMS
DETERMINATION OF SAFE THRESHOLD LEVELS OF COHERENT PADIATION
RESUSCITATION SOLUTIONS FOR THE ACCITECT INJURED
APPLIED NUTRITION STUDIES OF DUD PERSONNEL
ADVERSE EFFECTS ON HUMAN SKIN BY ENVIRONMENTAL FACTORS
COMBAT CASUALTY CARE

***FUNCTIONS/EQUIPMENT/CAPABILITIES
SURGICAL UPERATING RUOMS, ENVIRONMENTAL ROOMS, GERM FREE ANIMALS, SCANNING

TRANSMISSION ELECTRON MICROSCOPES, AUTO ANALYZERS/RECORDERS; AUTOMATIC MATIC BETA-GAMMA COUNTERS; SHADOW SHIELD WHOLE BODY COUNTER, GAMMA CAMERA AUTO AMINO ACID ANALYZERS; MASS SPECTROMETER RESEARCH INCLUDES: NUTRITIONAL SURVEYS AND RATION TESTING; BIDMED COMPUTER RESEARCH; BASIC AND APPLIED STUDIES OF TRACE MINERAL METABOLISM NUTRIENT REQUIREMENT AND INTERRELATIONSHIP; EXPERIMENTAL SURGERY, BIOCHEM STUDY OF MUSCLE METABULISM, EXERCISE AND FATIGUE IN MAN; STUDIES OF DELAY HYPERSENSITIVITY, STUDIES ON BLOOD PRESERVATION; OPTIMAL BLOOD STORAGE CONDITIONS AND CELL FREE RESUSCITATION FLUIDS; MAINTAINS BREEDING COLONY OF SPECIAL ANIMAL STRAINS; COMPUTER ENHANCED TOXICOLOGICAL RESEARCH; BIOMED ASPECTS OF CHEMICAL DEFENSE.

EJUIP

16.150

REAL PROP

16.59

CUR. CUL. W.R. BENUIT

DIR.DR. E. S. WRIGHT

	PRUGRAM D	ATA BY FISCA	L YEAR (MILLION	\$)
PRUGRAM		1979	1980	
		(ACTUAL)	(ACT + EST)	
TOTAL ROTEE		25.691	27.247	
TOTAL PROCUR	EMENT	7.177	7.536	
TOTAL DEM		3.736	3.899	
TOTAL OTHER		0.000	0.000	
TOTAL ANNUAL	LAd	36.604	38.682	
TOTAL INHOUS	£	20.018	21.267	
TOTAL INHUUS		15.902	16.969	
ANNUAL UPERA	-	5.558	5,836	
	PERSUNNEL DATA	LEND OF FY	1979)	
PERSONNEL	AUTHORIZED	TUTAL	TOTAL	NON-
	STRENGTH	PHDS	PRUF	PROF
MILITARY	18	1	10	8
CIVILIAN	604	61	190	414
TUTAL	622	62	200	422
	SPACE	AND PROPERTY	,	
ACRES	SPACE CHADUSANDS	•		(MILLION \$)

...MISSION

48

MANAGE DARCOM STRUCTURAL MATLS AND MECHANICS PROGRAM. EXECUTE PROGRAM IN-HOUSE & BY ASSIGNMENT & FUND TRANSFER TO OTHER DARCOM FACILITIES, EDUCA-TIONAL & INDUSTRIAL CONTRACTORS; MANAGE FIVE INFORMATION CENTERS; ASSIST IN DESIGN OF AND DEVELOPMENT OF PROJUTYPE MATERIEL COMPONENTS.

ADMIN

83.380

OTHER

160.030

TOTAL

632.571

... CURRENT IMPURTANT PROGRAMS

MATLS RESEARCH AIRCRAFT

MATIS RESEARCH ARMAMENT

MATLS RESEARCH ARMORED VEHICLES

MATLS RESEARCH MISSILES

MATLS RESEARCH MULTI-MISSION/SPECIAL REQUIREMENTS

LAB

389.161

... CUNCTIONS/EQUIPMENT/CAPABILITIES

MANIECH PROGRAMS. INSURES THE EFFECTIVE DEVELOPMENT, MANAGEMENT, AND COORD INATION OF TECHNICAL PROGRAMS IN CHEMICAL & PHYSICAL PROPERTIES, EXECUTE ASSIGNED PHASES OF INTERNATIONAL STANDARDIZATION AND OTHER PROGRAMS, DEV-FLUPS LUNG RANGE RED PLANS AND LONG RANGE MMET PLANS CUNSISTANT WITH THE UBJECTIVES OF THE ARMY, DEVELOPS OTHER GUIDANCE AS PROVIDED BY DARCOM IN CLUDING ASSESSMENTS OF GOVERNMENT AND PRIVATE RESEARCH IN RELATION TO PLANS, CONDUCTS & MANAGES BASIC, APPLIED, AND ADVANCED ROTGE ON MATERIALS SUCH AS CERAMICS, METALS, URGANIC POLYMERS, AND METAL AND ORGANIC MATRIX CUMPOSITE MATERIALS; TO IDENTIFY AND INVESTIGATE FACTORS INVOLVED IN THE DEVELOPMENT, PROCESSING, AND APPLICATION OF NEW AND IMPROVED MATERIALS. CUMPUCTS MANUFACTURING METHODS AND TECHNOLOGY PROGRAMS; ADVISE COMMANDS AND INDUSTRY ON PROCESSING TECHNIQUES

ACTING DIR.COL. ALBERT DEPRUSPERO

	PF	ROGRAM DAT	A BY FISCA	AL YEAR (MIL	LIUN \$)	
PROGRAM			1979	198	10	
		(A	CTUAL)	(ACT + EST	`)	
TUTAL ROTGE			16.564	17.98	1	
TOTAL PROCUR	EMENT		0.000	0.00	10	
TOTAL DEM			4.089	2.54	-2	
TOTAL OTHER			0.615	0.72	9	
TOTAL ANNUAL	LAB		21.268	21.25	32	
TUTAL INHOUS	E		15.120	14.57	7	
TUTAL INHUUS	E ROTGE		10.416	11.30	06	
ANNUAL OPERA	TING CUST		1.674	1.97	76	
	PERSUN	NEL DATA	(END OF F	Y 1979)		
PERSONNEL	AUTHORIZE	,	TOTAL	TOTAL		NON-
	STRENGT	1	PHDS	PROF	:	PKOF
MILITARY	25	•	0	13	}	16
CIVILIAN	411	Į.	22	315	5	96
TUTAL	44()	22	328	3	112
		SPACE AN	O PROPERT	Y		
ACRES	SPACE (THE	TUSANDS OF	SQUARE F	FET)	CUST (MILI	LION \$)
	LAB	ADMIN	UTHER	TOTAL	REAL PROP	EQU7
	0.790	95.814	5.245	101.849	2.07	0.76

...MISSION

PROVIDES THE CENTRAL INDEPENDENT TECHNICAL CAPABILITY FOR DAPCOM FOR THE CUNDUCT OF MAJOR SYSTEMS ANALYSIS AND COST EFFECTIVENESS STUDIES. SERVES AS DARCOM LEAD ACTIVITY FOR SURVIVABILITY AND RELIABILITY, AVAILABILITY, AND MAINTAINABILITY METHODOLOGY.

...CURRENT IMPORTANT PROGRAMS

TEST DESIGN & EVAL OF AAH, HELLFIRE, FIGHTING VEHICLE SYSTEM, PATRIOT, & XM1 EFFECTIVENESS & SURVIVABILITY OF PATRIOT, HEL, AAH, AND HELLFIRE INDEPENDENT EVAL OF XM1, CUPPERHEAD, GSRS, PATRIOT, SOTAS, AND VIPER EVALUATE DEVITEST OF AN/TPQ-36 AND TACFIRE DATA LINKS PREPARE AIR-TO-AIR/AIR-TO-SURF JUINT MUNITIONS EFFECTIVENESS MANUALS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

AMSAA MISSION CAPABILITIES INCLUDE! PERFORMING INDEPENDENT TEST DESIGN AND OVERALL EVALUATION FOR DECISIONS ON MAJOR, DESIGNATED NON-MAJOR, AND SELECTED OTHER SYSTEMS; PROVIDING OVERVIEW OF LIFE CYCLE SURVEILLANCE PROGRAMS FOR MATERIEL SYSTEMS IN INVENTORY; PROVIDING WEAPON SYSTEM EFFECTIVENESS ESTIMATES FOR COST AND, OPERATIONAL EFFECTIVENESS ANALYSES; PROVIDING SYSTEMS AMALYSIS SUPPORT TO DARCOM MAJOR SUBORDINATE COMMANDS AND PROJECT/PRODUCT MANAGERS; MAINTAINING DIRECT CONTACT WITH ARMY MATERIEL USERS IN THE FIELD; SERVING AS THE DARCOM FIELD ACTIVITY FOR ADMINISTERING THE JOINT TECHNICAL COURDINATING GROUP FOR MUNITIONS EFFECTIVENESS (JTCG/ME), AND PERFORMING LOGISTICS AND READINESS RELATED ANALYSIS.

CDR.CUL. CHARLES W. BINNEY

ACTG.DIR. DONALD RESCH

PRUGRAM	PRUGRAM DATA BY FISCAL 1979	YEAR (MILLION \$)
	(ACTUAL)	(ACT + EST)
TUTAL HOTEE	34.360	34.913
TOTAL PROCUREMENT	8.6 07	8.746
TOTAL DEM	0.881	0.895
TCTAL OTHER	5.529	5.104
TOTAL ANNUAL LAB	49.377	49.658
TUTAL INHOUSE	48.033	48.293
TUTAL INHOUSE RUTGE	33 . 2 7 2	33.808
ANNUAL OPERATING COST	21.098	23.612

	PERSONNEL DATA	(END OF FI	Y 1979)	
PERSONNEL	AUTHURIZED	TUTAL	TOTAL	NUN-
	STRENGTA	PHDS	PROF	PROF
MILITARY	214	0	23	191
CIVILIAN	703	8	446	257
TOTAL	917	8	469	448

		SPACE AN	D PRUPERTY	1		
ACRES	SPACE (THU	USANDS OF	SQUARE FE	ET)	COST (MILL	ION \$)
	LAB	MIMUA	UTHER	TOTAL	REAL PROP	EQUIP
22865	724.317	4.351	269.547	998.215	17.24	43.344

...MISSION

PLAN CUT & KEPT FESTS OF WPNS WPN SYS KKTS & GM SYS FIRE CON & TGT ACQ EQUIP ITEMS OF AMMO & MON COMPONENTS GHT VEHS OTHER AUTO MAT GEN EQUIP. PROV COR SVCS FOR PROC OF ARMOR PLATE FOR ALL DARCOM INSTES & ACTIVITIES PROV SUPPORT SVCS TO APG ELEMENTS & SUPPORTED COMMANDS.

...CURRENT IMPORTANT PRUGRAMS
XM1 TANK SYSTEM
GROUND-EMPLACE MINE-MARKING SYS
120MM GUN INTEGRATION PROGRAM
INFANTRY FIGHTING VEHICLE
10 TUN HIGH MUBILITY TRK (MAN) FRG

---FUNCTIONS/EQUIPMENT/CAPABILITIES

TEST AREA 68700 ACRES.RANGE TO LAND IMPAC. 26000M RANGE TO WATER IMPACT 30000M.41 MILES UP AUTMY ORS INCL 27 SP ENGR TEST ORS & OBSTACLES.VAR OF ENVIR UR COND EQUIP.SP CHAMBERS FOR SUBJECTING EQUIP TO DUST, SALT SPRAY OR SULAR RADN.ISOLATED VIBRATION TEST FAC WHICH PERMITS SHAKING EXPLO EQUIP SIMULTANEOUSLY WITH TEMP CONDITIONING FAC.FOR CONTROLLED TESTS OF ELEC CONE GUIDANCE EQUIP.FREQ SOURCE WHICH PERMITS TESTING ALL TYPES OF MAT IN PRESENCE OF A HIGH INTENSITY ELEC MAGNETIC RADN.SP FAC FOR TEST OF ARMOR PLATE.SP VEL & TGF EQUIP IS AVAIL FOR OBSERVATIONS DURING RAPID FIRE AS IS RKT TRACK FOR CONTROLLED TERMINAL BALLISTIC TESTS.FAC AVAL FOR TESTS OF SP ELECTRONIC & FIRE CON EQUIP & RELATED SYS & COMPONENTS. PULSE RADIATION FAC AVAL FOR USE IN RADIATION TESTING NUCLEAR EFFECTS. SIMULATION REACTOR TECHNOLOGY & RADIATION PHYSICS

FT.DETRICK.MD.

INSTALLATION: MEDICAL BIOENGINEERING R&D LABORATORY

COR.COL. JOHN N ALBERSTON, JR.

	PR	UGKAM DAT	A BY FISCA	L YEAR (MI	LLION \$)		
PROGRAM			1979	19			
		(A	CTUAL)	(ACT + ES	Τ)		
TUTAL ROTGE			3.561	4.2	76		
TUTAL PROCUREMENT			0.000	0.00	0 O		
TUTAL OAM			0.043	0.00	30		
TUTAL UTHER			1.041	0.7	0.728		
TUTAL ANNUAL	LAB		4.645	5.0	34		
TUTAL INHOUSE			4.455	4.6	4.643		
TUTAL INHOUSE ROTEE			3.371	3.885			
ANNUAL UPERATING COST			1.041	1.138			
	PERSONN	IEL UATA	(END OF FY	1979)			
PERSUNNEL	AUTHORIZED		TOTAL	TOTAL		NON-	
	STRENGTH		PHDS	PROF		PROF	
MILITARY	34		3	1	17		
CIVILIAN	102		1.5	39		63	
TUTAL	136		18	56		80	
		SPACE AN	D PRUPERTY				
ACRES	SPACE (THE	SPACE (THUUSANDS D		FT)	COST (MILI	LION \$)	
	LAB	AUMIN	OTHER	TOTAL	REAL PROP	EQUIP	
5	45.193	27.300	34.108	106.511	3.22	3.014	

...MISSION

CONDUCTS ENG RSCH AND DEVELOPMENT OF MILITARY MEDICAL EQUIPMENT CONDUCTS THE SURGEON GENERALS RDT.E PROGRAM IN INTEGRATED PEST MGMT CONDUCTS ENVIRONMENTAL, OCCUPATIONAL HEALTH RESEARCH CONDUCTS LIFE CYCLE SYSTEM MGMT OF MED, DENTAL, AND PEST MGMT MATERIEL

***CURRENT IMPORTANT PROGRAMS
DEVELOPMENT OF FIELD MED DEVICES AND EQUIP
PEST MGMT RUT*E INCLUDING METHOUS, MATERIALS, EQUIP AND CONCEPTS
DEVELOP OF ENVIRONMENTAL - TY STDS FOR DEMIL . INSTALL RESTORATION
ENVIRONMENTAL , OCCUPATAL - MEALIH RSCH ON SMOKE , OBSCURANTS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

DESIGN, DEVELOP, AND HARRICATE PROTUTYPE AND TEST MODELS OF MIL MED MAT

PRODUCE LIMITED QUANTITIES OF MED MAT FOR ORGENT MIC REQ

DESIGN, DEVELOP, AND HABRICATE PEST MGMT EQUIP AND SYSTEMS

DESIGN, DEVELOP, AND HABRICATE PROTUTYPE AND TEST MODELS OF MIL DENTAL MAT

PERFORM HEALTH AND ECOLOGICAL EFFECTS RSCH ON ENVIRONMENTAL PULLUTANTS

PERFORM PILOT PLANT RSCH FOR WASTEWATER REUSE FOR FIELD ARMY

TOTAL REAL PRUP EQUIP

33.022

0.15

0.010

CDR.BG.G. RAPMUND

1

	PRUGRAM DA	ATA BY FISCA	L YEAR (MILLION S	;)
PRUGRAM		1979	1480	
	(IACTUAL)	(ACT + EST)	
TOTAL KOTEE		25.550	27.391	
TOTAL PROCURE	MENT	0.000	0.000	
TOTAL UEM		0.258	0.300	
TOTAL OTHER		1.491	1.596	
TUTAL ANNUAL	LAB	27.299	29.287	
TOTAL INHOUSE	•	27.299	29.287	
TUTAL INHOUSE	ROTEE	25.550	27.391	
ANNUAL UPERAT	TING COST	2.074	2.563	
	PERSUNNEL DATA	(END OF FY	/ 10701	
PERSONNEL	AUTHURIZED	10TAL	TOTAL	NON-
FROOMILE	STRFNGTH	PHUS	PROF	PROF
MILITARY	57	21	39	18
CIVILIAN	92	0	7,	90
TUTAL	149	21	41	108
. • • • • •	• •		· •	
	SPACE A	AND PROPERTY	•	
ACRES	SPACE (THOUSANDS	F SQUARE FE	EET) CUST	(MILLION \$)

0THER 0.000

...MISSION
ADMINISTRATION AND COURDINATION OF THE MEDICAL ROTE PROGRAM
PROGRAM LIMITED TO UNIQUE MIL PROBLEMS WITHIN US AND OCONUS

ADMIN

33.022

...CURRENT IMPORTANT PROGRAMS
CARE OF THE WOUNDED
PREVENTION AND CONTROL OF INFECTIOUS DISEASES
ENHANCEMENT OF MILITARY PERFORMANCE
PROTECTION AGAINST MILITARY ENVIRONMENTAL HAZARDS

LAB

0.000

...FUNCTIONS/EQUIPMENT/CAPABILITIES
SERVES AS AN AUMINISTRATIVE HEADQUARTERS FOR THE ARMY MEDICAL DEPARTMENT

INSTALLATION: MEDICAL RSCH INST OF INFECTIOUS DISEASES FT.DETRICK, MO.

CDR.CUL. RICHARU F. BARQUIST CH.SCI.UR. WILLIAM R. BEISEL

	PRUGRAM	DATA BY FISCAL	YEAR (MILLIUN	\$)
PROGRAM		1979	1980	
		(ACTUAL)	RACT + EST)	
TOTAL ROTGE		8.665	H.915	
TUTAL PROCUREM	ENT	0.000	0.000	
TUTAL DEM		0.000	0.000	
TUTAL UTHER		4.067	4.453	
TUTAL ANNUAL L	A B	12.732	13.368	
TOTAL INHOUSE		12.732	13.368	
TOTAL INHOUSE	KUTGE	8.665	8.915	
ANNUAL UPERATI	NG CUST	4.895	6.201	
	PERSUMNEL DA	TA (END UP FY	1979)	
PERSUNNEL	AUTHURIZED	TUTAL	TUTAL	NUN-
	STRENGTH	PHDS	PROF	PROF
MILITARY	308	48	77	231
CIVILIAN	199	26	70	129
TOTAL	507	74	147	360
	SPAC	E AND PROPERTY		
ACRES	SPACE (THOUSAND	S OF SHUARE FEE	et) cost	(MILLIUN S)
	LAB ADM	IN UTHER	TOTAL REAL	PRUP EQUIP

...MISSION

43

PERF STUDIES ON THE PATHOGENESIS, DIAGNOSIS, PROPHYLAXIS, TREATMENT, EPIDEMIDLOGY OF NATURALLY OCCURING INFECT DISEASES OF MIL IMPORT WITH EMPHASIS ON PROBLEMS ASSOC WITH THE MED DEFENSE AGAINST BIO AGENTS AND ON MICROURGANISMS WITCH REQ SPEC CONTAIN FACILITIES.

209.699

17.12

6.946

310.373

19.820

...CURRENT IMPORTANT PROGRAMS
DEVELOPMENT OF NEW VACCINES AND TUXUIDS
IMMUNDLOGICAL STUDIES TO DETERMINE HOW TO IMPROVE VACCINE PRODUCTION
STUDIES ON PATHUGENESIS OF MILITARILY IMPORTANT INFECTIONS
DEVELOPMENT OF MORE RAPID AND ACCURATE METHODS OF INFECTION DIAGNOSIS
AND MEDICAL THERAPY FOR BW DEFENSE

... FUNCTIONS/EQUIPMENT/CAPABILITIES

80.854

TWO LARGE BUILDINGS PROVIDE ABOUT 310,000 SQUARE FEET OF SPACE AND CUNTAIN 23 MODERN LABORATURY SUITES WHICH REPRESENT THE LATEST IN FUNC CUNCEPTS, LABORATURY DESIGN AND SAFETY. A CUMPLEX PROGRAM OF MEDICAL RESIS CONDUCTED AND INCLUDES IMMUNDLOGY, PATHOLOGY, SEROLOGY, BIOCHEMISTRY, BIOPHYSICS, MOLECULAR RIOLOGY, AND TISSUE CULTURE. SPECIAL CAPABILITIES INCLUDE ELECTRON MICROSCOPY, RADIOIMMUNUASSAY LABORATORIES, A VACCINE PRODUCTION SUITE, HOSPITAL FACILITIES FOR MEDICAL PATIENTS AND FOR RESISTUDIES WITH VOLUNTEERS. USAMRITO RESEARCH IS SUPPORTED BY TWO COMPUTERS AND AN ANIMAL FARM.

COR.MG. LOUIS RACHMELER

ACTG.DIR.DR. JULIAN KUBLER

	PROGRAM DATA BY FISCAL	L YEAR (MILLION \$)
PROGRAM	1979	1480
	(ACTUAL)	(ACT + EST)
TUTAL ROTGE	66.871	73.741
TOTAL PROCUREMENT	23.397	8.000
TOTAL USM	7.583	4.146
TOTAL OTHER	2.334	40.376
TOTAL ANNUAL LAB	100.185	126.263
TUTAL INHUUSE	€ 5,,825	58.072
TOTAL INHOUSE ROTEE	41.406	44.700
ANNUAL OPERATING CUST	14.255	14.968

	PERSONNEL DATA	(END OF FY	1979)	
PERSONNEL	AUTHURIZED	TUTAL	TOTAL	NON-
	STRENGTH	PHDS	PROF	PROF
MILITARY	28	O	19	9
CIVILIAN	473	42	600	373
TOTAL	1001	42	619	382

		SPACE AN	U PKUPERTY	∀		
AURES	SPACE (TH	UUSANUS UF	SQUARE FI	EET)	COST (MILL	(2 NOI.
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
11000	663.993	318.702	428,008	1410.703	131.00	90.000

---MISSION

MANAGE AND CONDUCT RSCH, EXP & ADV DEV FUR ASSIGNED MATERIEL; PROVIDE SEE SPT TO UTHER ACTIVITIES; PLANS, DIRECTS & CONDUCTS RSCH STUDIES & PROMS TO ADVANCE SYS ENGR & YESTING TECHNOLOGY; PROVIDES CENTRAL ENGR BASE FUR DESIGN & MANUFACTURE OF PRUTOTYPE SYS & COMPONENTS. OF MATERIELS

... CURRENT IMPORTANT PRUGRAMS TRANSFERRED SEEKER TECHNOLOGY TO ASSAULT BREAKER. COLLECTED DATA ON IRZED SENSORS DURING SMOKE WEEK II. FLIGHT DEMONSTRATION OF DIGITAL AUTOPILOT SUCCESSFULLY COMPLETED. OBSCURATION PROGRAM. PRODUCTION ENGINEERING.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

LAB IS EQUIPPED TO STUDY PROBLEMS IN PROP, AFRO, GEC & STRUCTURES. MAJOR FAC IS MCMORROW LAB WHICH HOUSES MAJORITY OF FACILITY. SOME OF THE UNI-QUE FAC ARE: ADV SIM CTR, A COMPUTER COMPLEX SURROUNDED PERPHERALLY BY 3 ENVIR EFFECTS SIMULATURS; MSL COMPUTER SUFTWAREZHOW CTR; SIG EVAL ENVIR CHAMBER: ARMY MSL OPTICAL RANGE DESIGNED TO MEASURE LASER RADAR SIG. MAINTAINS AND OPERATES 7 MAJUR TEST AREAS WHICH ENCOMPASS FLIGHT STATIC, ENVIRONMENTAL & FUNCTIONAL TEST; STATE-OF-THE-ART FACILITIES & EQP SUCH AS LASER TRACKERS & E'. ECTRO-MAGNETIC RADAR SENSORS. ENGR DESIGN & DEV OF CURRECTIONS TO DESIGN DEFICIENCIES IN FIELDED WPN SYSTEMS. PERFORMS ARMY LEAD LAB FUNCTION IN HIGH POWER/ENERGY LASER RSCH & TECH & MSL RSCH. FAC FOR MELH, ELECT & ELEC FABRICATION & ASSY, & HYSRID MICRO-CIRCUITRY DE-SIGN ARE AVAILABLE. SMOKE CHARACTERIZATION FACILITY IS ALSO AVAILABLE.

FT.BELVDIR, VA.

INSTALLATION: MUBILITY EQUIP R & D CUMMAND

CDR.COL. ALBERT F. DURRIS

TECH-DIR-MR-DONALD 8-DINGER

	PRUGRAM DATA BY F	ISCAL YEAR (MILLION \$)
PRUGRAM	1979	1980
	(ACTUAL)	(ACT + FST)
TOTAL ROTGE	72.736	82.073
TOTAL PROCUREMENT	154.909	159.800
TOTAL DEM	18.145	19.569
TUTAL OTHER	0.000	0.000
TOTAL ANNUAL LAB	245.790	261.442
TOTAL INHOUSE	43.344	45.620
TOTAL INHOUSE ROVEE	30.448	29.280
ANNUAL UPFRATING COST	13.664	14.547

	PERSONNEL UATA	lend of f	Y 1979)	
PERSONNEL	AUTHORIZED	TUTAL	TUTAL	NUN-
	STRENGTH	PHUS	PROF	PROF.
MILITARY	80	1	17	63
CIVILIAN	1182	21	378	804
TUTAL	1262	22	395	867

		SPACE AN	U PROPERTY	1		
ACRES	SPACE (TH	OUSANDS OF	SQUARE FE	EET)	CUST (MILL	.10N \$)
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
1064	750.849	146.730	209.879	1107.458	49.09	34.947

...MISSIUN

ARMY WITH A SUPERIOR COMBAT & DEFERRENT CAPABILITY, NOW & IN THE FUTURE EQUIPED WITH TECHNOLOGICALLY SUPERIOR & COST & OPERATIONALLY EFFECTIVE MATERIEL IN BARRIER/CTRBARRIER SYS, CTRSURVEILLANCE SYS, ENERGY & ENVIRON SYS, & SUPPLY DISTRIBUTION & CONSTRUCTION EQUIPMENT SYS AREAS.

...CURRENT IMPORTANT PROGRAMS ENERGY & ENVIRONMENTAL SYSTEMS COUNTERSURVEILLANCE SYSTEMS FUEL & WATER SYS BARRIER/COUNTERBARRIER SYSTEMS MARINE & BRIDGE SYSTEMS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

ACCOMPLISH RUTE OF MATERIEL FOR MIL SYS OF BARRIERS, BROGNG & STRUCTURES COUNTERMINE, FIELD FORTIFICATIONS, CAMOUFLAGE, PHYSICAL SECURITY, TUNNEL DETECTION, TOPOGRAPHY(ENGRG ONLY), FUELS & LUBES, FUELS HNDLG EQUIP, ELEC POWER GENERATE & DISTRIB, ENVIRON CONTROL, WATER & WASTE MGT, MATERIALS HNDLG & SUPPLY DISTRIB, TRANSPURT-MARINE & KAIL EQUIP, AND CONSTRUCTION EQUIP. FAC INCL MINE FLD IFST LAMES, SENSUR TEST AREA, ROD FREQ ANECHDIC CHAMBER, FLUID STRUKING TEST CHAMBER, FUELS & LOBE LAB, FIRE SUPPRESSION CHAMBER, CAMOUF EVAL & REF CTR, ELECTRIC PROPULSION SIM, BRIDGE FEST HANGER, MOB STRESS ANAL VAN, TRK STABILITY TILT TABLE, VEH YEST TRACKS, SHOCK & VIBRATION DYNAMIC SIM, ENVIRON SIM, MATERIALS RSCH LAB, CALIB & INSTRUMENTATION, EMI SIM, COMPT CTR, STILL & MUTION PIC SPT, KSCH & DEV MODEL FABRICATION SHOPS.

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NATICK, MA.

INSTALLATION: NATICK RED COMMAND

CDR.COL. R.J. CUTHBERTSUN

ACTG.TECH.DIR. JAMES H. FLANAGAN

	PROGRAM DATA BY FISCAL	YEAR (MILLION \$)
PROGRAM	1979	1980
	(ACTUAL)	(ACT + EST)
TUTAL ROTGE	34.353	36.951
TOTAL PROCUREMENT	0.505	4.000
TOTAL UEM	12.212	11.107
TUTAL UTHER	5.021	5.053
TUTAL ANNUAL LAB	52.091	57.111
Market and the second	30. 300	
TOTAL INHOUSE	39.188	40.263
TOTAL INHOUSE RUTGE	23.722	75.585
ANNUAL UPERATING COST	7.571	6.974

	PERSONNEL DATA	(END UF F	Y 1979)	
PERSONNEL	AUTHURIZED	TUTAL	TOTAL	NUN-
	STRENGTH	PHDS	PROF	PROF
MILITARY	194	7	28	76
CIVILIAN	1083	70	445	637
TUTAL	1187	77	474	713

		SPACE AN	D PROPERTY	1		
AURES	SPACE (THE	DUSANDS UF	SQUARE #E	EET)	COST (MILE	.ION \$1
	LAB	AUMIN	UTHEK	TUTAL	REAL PRUP	EQUIP
2913	552.557	65.900	417.802	1036.319	27.33	18.857

...MISSION

CONDUCT SCIENTIFIC RED TO SUSTAIN AND PROTECT MIL PERS UNDER ALL CONDINS DESIGN AND DEVELOP FOOD & FOOD SERV SYS, PROT CLOTHEAIR TROP DELIV EQUIP ACCOMPLISH ILS FUNCTION IN ABOVE & EXECUTE FIRST PROD PROC & FIFLDING OF NEW ARMY MANAGED ITEMS. PROV TECH & ENG SUPPORT TO PROC AGENCIES

***CURRENT IMPORTANT PROGRAMS
RADIATION PRESERVATION OF FOOD
SUBSISTENCE TECHNOLOGY
ANALYSKS AND DESIGN OF MILITARY FEEDING SYSTEMS
CLOTHING AND EQUIPMENT TECHNOLOGY
AIRDROP TECHNOLOGY

...FUNCTIONS/EQUIPMENT/CAPABILITIES

COBALT 60 IRRAD FACIL DESIGNED FOR MAX FLEXIBILITY IN FOOD PROCESS—HIGH POWER LINEAR ACCELERATOR PILOT PLANT FOR FOOD AND FOOD PACKAGING BACTER IDLOGY LAB EQUIP FOR INVESTIGATION OF PATHOGENIC MICROURGANISMS—HIGH RESULUTION MASS SPECTROMETER FOR ANALYSIS OF VOLATILE COMPOUNDS FEBETRON MACHINE USED AS A RAD SOURCE FOR PULSE RADIOLYSIS—PILOT PLANT TO STUDY DATA ON CONVERTING CELLULUSE TO GLUCUSE ENZYMATICALLY DYEING AND FINISHING LAB FOR CONDUCTING STUDIES OF TEXTILES COMPUTER GENERATED SYS OF CLOTHING PATTERNS TO OUTPUT COMPLETE TARIFF OF SIZES FROM ONE MASTER CLIMATIC CHAMBERS TO TEST ITEMS AT TEMPS ~57C TO 874C WITH WIND & RAIN FLAME PROTECTION LAB AND FACILITY INCLUDING AN OUTDOOR FLAME PIT UNIVAC 1106 COMPUTER WITH DISK PACSBTAPE DRIVES AND INPUTZOUTPUT EQUIP AIRCRAFT ROLLER CONVEYOR TEST FACILITY—FIRE PITS FOR TESTING MATERIALS

terland abbeild brown to the Salar Salar and Martel substitute a track that I have a come the three will be a substitute to the salar than

INSTALLATION: NIGHT VISION & ELECTRO OPTICS LABORATORY FT.BELVOIR, VA.

ACTG.DIR.MR. JOHN JOHNSON

ASSUCIDIRIDR. LOUIS M. CAMERON

	PRUGRAM DATA BY FISCAL	YEAR (MILLION \$)
PRUGRAM	1979	1980
	(ACTUAL)	(ACT + EST)
TUTAL KOTEE	37.276	39.565
TOTAL PROCUREMENT	211.807	165.646
TUTAL UEM	0.708	0.742
TOTAL OTHER	0.000	0.000
TOTAL ANNUAL LAB	249.791	205.953
TUTAL INHOUSE	18.779	22.321
TOTAL INHOUSE ROTEE	13.895	19.018
ANNUAL UPERATING GUST	2.103	2.103

	PERSONNEL DATA	(END OF F	Y 1979)	
PERSONNEL	AUTHOR1250	TOTAL	TOTAL	NUN-
	STRENGTH	PHDS	PROF	PROF
MILITARY	32	0	. T	25
CIVILIAN	459	29	203	256
TUTAL	491	29	210	281

		SPACE AN	D PROPERTY			
ACRES	SPACE (THO	IUSANDS (IF	SHUARE FE	ET)	COST (MILL	(4 NUI.
	LAB	NIMUA	UTHER	TOTAL	REAL PROP	EQUIP
38	180.639	27.186	20.000	227.825	32.00	50.000

...MISSION

NV&EUL IS RESPONSIBLE FUR PROVIDING THE ARMY WITH A NIGHT VISIUN CAPABILITY THAT WILL ALLOW IT TO OPERATE WITH NEAR DAYLIGHT EFFICIENCY. THE SYSTEMS DEV PROGRAM IS STRUCTURED AROUND A STRONG TECHNOLOGY BASE WHICH CONSISTS OF FIR, ELFCTRO-OPTICS, LASERS AND VISIONICS.

***CURRENT IMPURIANT PROGRAMS
SECUND GENERATION THERMAL IMAGING
SURVEILLANCE TARGET ACQUISITION RADAR FOR TANK LOCATION & ENGAGEMENT
AVIATURS NIGHT VISION SYSTEM
LUW COST NIGHT VISION AIDS
ADVANCED LASER DEVICES

... FUNCTIONS/EQUIPMENT/CAPABILITIES

MAJUR HACILITIES INCLUDE: NIGHT VISION SYSTEM LAB, IR DETECTOR FABR & ANALYSIS FACILITY, SURHACE RESEARCH FACILITY, FOCAL PLANE ARRAY TEST FACILITY, IR UPTICAL TEST FACILITY, IMAGE INTENSIFIER TUBE TESTING FACILITY, SEMI-CONDUCTUR MATERIALS RESEARCH FACILITY, ELECTRONICS TEST FACILITY, INTERACTIVE IMAGE PROCESSING FACILITY, LASER RANGES, 3-D MULTI SPECTRAL SEARCH SIMULATOR, SCIENTIFIC COMPUTER CENTER, FIRING TEST RANGE, AND E-OVIR IMAGE EVALUATION FACILITY.

INSTALLATION: RESEARCH INST FOR BEHAVIORAL & SOCIAL SCI WASHINGTON, D.C.

CURICUL FRANKLIN A HARF

TECH-DIR DR. JUSEPH ZEIDNER

	اد دا	ICHAM DAT	A BY FISCA	. VEAU 1MT	LI TON CI	
PRUGRAM	r ive	MANAGE DATE	1979		80	
T NOONAL!		(A	CTUAL)	(ACT + ES		
TOTAL RUTEE		-	24.129	28.1	-	
TOTAL PRINCIPLI	EMENT		0.000	0.0		
TOTAL USM			0.000	0.0	-	
TOTAL UTHER			0.687	0.7	-	
TUTAL ANNUAL	LAS		24.816	28.9	-	
				7		
TOTAL INHOUSE	<u> </u>		12.203	13.6	93	
TUTAL INHUUS	E RUTEL		11.516	12.9	6Û	
ANNUAL UPERA	FING CHST		3.244	3.6	83	
	PEKSUNN	EL DATA	(ENU UF FY	1979)		
PERSONNEL	AUTHORIZED		TUTAL	TUTA	L	NON-
	いてんりょうしょう		PHUS	PRU	F	PROF
MILITARY	30		2	2	1	9
CIVILIAN	328		132	18	9	139
TUTAL	358		134	21	0	148
			D PROPERTY			
ACRES	SPACE (THU				COST (MILI	
	LAB		UTHEK			
O	46.110	2.559	6.190	54.859	0.00	1.795

...MISSION

TO MAXIMIZE COMBAT EFFECTIVENESS THROUGH RESEARCH IN THE ACQUISITION, DEVELOPMENT AND UTILIZATION OF SOLDIERS IN MILITARY SYSTEMS

***CURRENT IMPURTANT PRUGRAMS
PERFORMANCE ORIENTED SKILL DEVELOPMENT AND EVALUATION
TRAINING TECHNOLOGY
ON-THE-JOB TRAINING
MANPOWER ACCESSION AND RETENTION SYSTEMS
TECHNIQUES FOR ORGANIZATIONAL EFFECTIVENESS AND MANAGEMENT

...FUNCTIONS/EQUIPMENT/CAPABILITIES
NINE CONUS FIELD UNITS & UNE IN EUROPE, LIAISON OFFICES AT TRADOC,
FURSCOM, & IN LONDON SUPPORT IN-HOUSE RESEARCH PROGRAM MANAGED BY 2 LABS
WITHIN WHICH ARE 6 TECH AREAS, 1 PERSONNEL UTILIZATION, 2 TRAINING,
3 LEADERSHIP & MANAGEMENT, + SIMULATION SYSTEMS, 5 MANPOWER & EDUCATION
SYSTEMS, 6 HUMAN FACTURS. CONUS FIELD UNITS ARE AT FTS BENNING, BLISS,
KNUX, SILL, HOOD, LEAVENWORTH, RUCKER, HEN HARRISON, & PRESIDIO OF
MONTEREY. IN-HOUSE EXPERIMENTAL FACILITIES INCLUDE LABORATORY AREA. ARMY
-UWNED IN-HOUSE COMPUTERS PERMIT, WITHIN THE LABS; REAL-TIME EXPERIMENFATION, GAMING, & SIMULATION. ADDITIONAL TERMINAL LINES TO EXTERNAL
COMPUTERS PROVIDE FLEXIBILITY. EXPER PROGRAM PERMITS A WIDE RANGE OF LAB
OPTIONS TO TEST HUMAN PERFORMANCE HYPUTHESES UNDER SIMULATED OPERATIONAL
CONDITIONS, INCL & COMMAND POST IN SIMULATED TACTICAL SITUATIONS.

INSTALLATION: RSCH INSTITUTE OF ENVIRONMENTAL MEDICINE

NATICK . MA.

CDR.COL. HARRY G. DANGERFIELD

	PF	ROGRAM DAT	A BY FISCA	AL YEAR (MI	LLION \$)	
PROGRAM			1979	19	80	
		(A	CTUAL)	(ACT + ES	T)	
TOTAL ROYSE			3.935	4.1	48	
FOTAL PROCURE	MENT		0.000	0.0	00	
TOTAL DEM			0.000	0.0	00	
TUTAL OTHER			0.968	1.0	19	
TOTAL ANNUAL	LAB		4.903	5.1	67	
TUTAL INHOUSE	•		4.903	5.1	67	
TOTAL INHOUSE			3.435	4.1	48	
ANNUAL UPERAT	ING COST		0. 888	0.9	50	
	PERSONI	IEL DATA	(END UF FY	(1979)		
PERSONNEL	AUTHORIZE		TUTAL	TOTA	L	NON-
	STRENGT	+	PHDS	PRU	۴	PROF
MILITARY	8		9	4	.0	4 <u>%</u>
CIVILIAN	94	4	18	4	4	50
TUTAL	179	5	27	ಕ	4	91
		SPACE AN	ID PKOPERT	Y		
ACRES	SPACE (THE	DUSANUS OF	SQUARE F	EET)	CUST (MILL	ION \$)
					REAL PROP	
4	60.421	18.563	28.647	107.631	3.71	3.825

...MISSION
TO CONDUCT BASIC AND APPLIED RESEARCH TO DETERMINE THE EFFECTS OF HEAT,
CULD, HIGH TERRESTRIAL ALTITUDE AND WORK UPON THE SOLDIERS*LIFE PROCESSES
PERFORMANCE AND HEALTH. THE GOAL IS TO UNDERSTAND THE COMPLEX INTERACTION
OF ENVIRONMENTAL STRESSES WITH THE BUDY*S DEFENSE MECHANISMS AND TECH.

...CURRENT IMPURTANT PROGRAMS
IMPROVEMENT OF PHYSICAL FITNESS TRAINING AND PREVENTION OF INJ REL TO TG
PHYSICAL FITNESS REQUIREMENTS, EVALUATION, AND JOB PERF IN THE US ARMY
PREDICTION OF THE BIOLOGICAL LIMITS OF MILITARY PERF AS A FUNCT OF ENVIR
BIOLOGICAL PROCESSES THAT LIMIT HEAVY PHYSICAL WORK ABILITY OF THE SOLDI
PREVENTION AND TREATMENT OF DISABILITIES ASSOCIATED WITH MIL OPERATIONS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CONDUCT RESEARCH AND PROVIDE GUIDANCE TO DESIGNERS, ENGINEERS, TACTIANS,
PLANNERS AND PHYSICIANS ON MILITARY PERFORMANCE AND CASUALTY PREVENTION
AND TREATMENT IN EXTREME CLIMATES AND ENGINEERED ENVIRONMENTS; ADVISE ON
HEALTH AND SAFETY IN MANEUVERS DURING HEAT, COLO, OR HYPOXIC STRESS
AND RAPID AIR TRANSLUCATION. IN HUMAN AND ANIMAL RESEARCH USE APPROXIMATE
180 VOLUNTEER TEST SUBJECTS, AND CLIMATIC CHAMBERS OF USANARADCOM. IN
ADDITION, APPROXIMATELY 475 OTHER HUMAN TEST SUBJECTS WERE UTILIZED AT
VARIOUS LUCATIONS THROUGHOUT CONUS. THE MAJOR EQUIPMENT AND FACILITY
CAPABILITIES OF THE LABORATORY INCLUDE, BUT ARE NOT LIMITED TO, MANY SMALL
CHAMBERS, ANIMAL CARE FACILITIES, ELECTRON MICROSCOPE, UNDERWATER RESEARCH
POOL, COUPER MANIKINS AND DIVERSE PHARMACULOGICAL AND PSYCHOLOGICAL
MEASUREMENT. THE INSTITUTE MAINTAINS A FIELD FACILITY AT PIKES PEAK, CO.

VINT HILL, VA,

INSTALLATION: SIGNALS WARFARE LABURATORY

DIR HERBERT S. HOVEY, JR.

PROGRAM DATA BY FISCA	L YEAR (MILLION \$)
1979	1980
(ACTUAL)	(ACT + EST)
11.087	14.067
91.400	62.200
2,170	2.897
20.296	17.331
124.953	96.495
5.656	6.022
1.730	1.40
2.286	2.305
	1979 (ACTUAL) 11.087 91.400 2.170 20.296 124.953 5.656

	PERSONNEL JATA	(END OF FY	Y 1979)	
PERSONNEL	AUTHURIZED	TUTAL	TOTAL	NON-
	STRENGTH	PHDS	የ የፀቻ	PROF
MILITARY	69	Q	2 9	40
CIVILIAN	168	5	51	117
TUTAL	237	5	e o	157

		SPACE AND	PROPERTY			
ACRES	SPACE (THE	JUSANUS OF	SQUARE FFE	T)	COST (MILL	ION \$)
	LAB	ADMIN	UTHER	TOTAL	REAL PROP	EUUIP
10	3.436	32.101	3.463	40.000	2.00	9.980

...MISSION

RESEARCH, DESIGN, DEVELOPMENT, EVALUATION, ANALYSIS, LOGISTICAL INTEGRATION, FIRST ARTICLE PRODUCTION, SUCCESSFUL FIELDING AND PRODUCT IMPROVEMENT OF SIGNALS. INTELL/ELECTRONIC WARFARE SYS AND THE DESIGN OF SIGNAL SECURITY DEVICES AND TECH TO MEET ARMY AND DIRECTED NATIONAL REQMIS.

...CURRENT IMPURTANT PROGRAMS AN/MLQ-33, CLUSE AIR SUPPURT ECM AN/MLQ-34, TAC JAM EXPENDABLE JAMMERS. AN/ALQ-151, QUICK FIX AREA SUPPORT RADAR JAMMERS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

THE US ARMY SIGNALS WARFARE LABORATORY IS LOCATED AT VINT HILL FARMS STATION, WARRENTON, VIRGINIA, IN A FACILITY UNIQUELY SUITED TO MISSION. THE LABORATORY CONSISTS OF APPROXIMATELY 4000 SQUARE FEST WITH A COMPUTERIZED SIGNAL PROCESSING FACILITY (CONSISTING OF A CPU, RECORDERS, ANAL) FOR SYS SOFTWARE VERIFICATION AND VALIDATION, R&D SOFTWARE DEV AND SUP ARE USED FOR DESIGN AND TEST OF EQUIP IN A REAL TIME ENVIRONMENT. THE LAB IS STAFFED WITH ELECTRONIC ENGINEERS AND TECH, SIGNALS ANALYSTS, OPERATION RESEARCH ANALYSTS, INTEGRATED LOGISTIC SUPPORT PERSONNEL, PRODUCT AND QUALITY ASSURANCE TECHNICIANS, AND PRODUCTION ENGINEERS TO PROVIDE FOR TECHNICALLY SOUND, MILITARIZED AND FULLY SUPPORTABLE AND INTERZINTRA-OPERATABLE COMMUNICATIONS AND ELECTRONICS SYSTEM AND EQUIPMENT.

WAKREN, MI.

INSTALLATION: FANK-AUFU R & D CUMMAND

CDR. BG. A. H. ANDERSON

TECHOUIROUR. F. N. PETRICK

	PRUGRAM DATA HY FISCA	AL YEAR (MILLION S)
PROGRAM	1979	1980
	(ACTUAL)	(ACT + 55T)
TUTAL RUTGE	65.371	80.041
TOTAL PROGUREMENT	97 . 998	63.733
TOTAL UEM	7.039	9.898
TUTAL OTHER	0.000	0.000
TOTAL ANNUAL LAS	170.408	153.672
TUTAL INHUUSE	23.452	2R.944
TUTAL INHOUSE ROTEE	13.448	17.993
ANNUAL OPERATING COST	4.298	3.945
PEKS	CONNEL DATA (FND OF F)	1979)
		No. 1

	PERSONNEL DA	IN THIS OF EX	17171	
PERSUNNEL	AUTHUR 12 EU	TOTAL	TOTAL	NON-
	STRENGTH	PHO'S	PROF	PROF
MILITARY	4()	3	38	2
CIVILIAN	795	15	342	453
TOTAL	835	18	380	455

		SPACE AN	D PROPERTY			
ACRES	SPACE (THE	JUSANUS OF	SJUARE FEE	T)	COST (MIL	LION \$)
	LAB	AUMIN	UTHER	TUTAL	RHAL PRUP	EQU1P
11	140.319	99.947	0.000	240.266	38.29	135.000

...MISSIUN

RESPONSIBLE FOR ACCOMPLISHING DESIGN, DEVELOPMENT, ACQUISITION AND INITIAL DEPLOYMENT OF ASSIGNED WEAPONS/EQUIP SYSTEMS. CONDUCT AND MANAGE RESEARCH, PERFORM PROCUREMENT AND QUALITY ASSURANCE THRU DEVELOPMENT. PERFORM RELIABILITY—MAINTAINABILITY ASSESSMENT

...CURKENT IMPORTANT PROGRAMS
HOLOGRAPHIC INTERFEROMETRY THECHNIQUES TO TEST TANK-AUTO COMP
ACOUSTIC DETECTION OF HELICOPTER FROM AIR DEFENSE VEHICLES
COUNTERMEAS AGAINST INFRAKED AND RADAR ANTI-TANK GUIDED MISSILE THREATS
TOTAL ANALYTICAL BALLISTE PROCEDURE APPLIED TO COMBAT VEHICLE SYSTEM
TANK SCIENCE AND TECHNOLOGY PLAN

***FUNCTIONS/EQUIPMENT/CAPABILITIES

VEHICLE BRAKE DYNAMUMETER; FNGINE AND TRANSMISSION TEST CELLS

VEHICLE SUBSYSTEM INTEGRATION; VEHICLE MOTION SIMULATOR
ANALYTICAL PREDICTION OF MILITARY VEHICLE PERFORMANCE

VEHICLE SIGNATURE MEASUREMENT CAPABILITY

SIX DEGREE OF FREEDOM SIMULATOR

VEHICLE COMPONENT EVALUATION

SIX DEGREE OF FREEDOM SIMULATOR

METAL ANAL W/MICROPROBE ELECTRON MICROSCOPE ANALYZER AND TECHNIQUES
DEVELOPMENT OF IMPROVED ARMOR WELDING, FABRICATION AND APPLIC TECHNIQUES

LOW TEMPERATURE SHOCK AND VIBRATION TEST FACILITIES

VEHICLE DYNAMIC SIMULATION FACILITY; IMAGE PROCESSING CAPABILITY
HOLOGRAPHIC CAPABILITY FOR LARGE STRUCTURES

COR.COL. RICHARD P. BARRERE

	PRUGRA	M DATA BY FISCAL	YEAR (MILLION S)
PRUGRAM		1970	1980
		(ACTUAL)	(ACT + FST)
TUTAL RUYSE		2.807	3.107
TOTAL PROCUR	EMENT	0.027	0.001
TUTAL DEM		0.005	0.001
TOTAL DIHER		1.194	1.724
TOTAL ANNUAL	LAU	4.033	4.833
TUTAL INHUUS	t	3.822	4.124
TUTAL INHUUS	e ROTEE	2,616	2.911
ANNUAL UPERA	TING COST	0.392	0.418
	PERSONNEL O	ATA (END OF FY	1979)
PERSONNEL	AUTHURIZEU	TOTAL	TOTAL
	STRENGTH	PHD 5	PRUF
	_		,

PERSONNEL	AUTHORIZED	TOTAL	TOTAL	NON-
	STRENGTH	PHD 5	PRÚ F	PRUF
MILITARY	ಕರಿ	U	4	76
CIVILIAN	61	1	9	52
TUTAL	141	1	13	128

		SPACE AN	U PROPERTY			
ACRES	SPACE (TH	TUSANUS OF	SQUAKE FE	ř.T)	CUST (MILL	10N 5)
	LAB	ADMIN	OTHER	TUTAL	REAL PRUP	EUUIP
2625	20.510	35.925	94.85a	146.293	1.06	2.384

...MISSION

PLAN-CONDUCT AND REPORT ON ENVIRONMENTAL PHASES OF DEVELOPMENT TEST 11, AND OTHER DEVELOPMENTAL TYPE TESTS. PROVIDE ADVICE AND GUIDANCE ON TESTS AND EVALUATION MATTERS TO MATERIALS OF VELOPERS, MATERIAL FRODUCERS, OTHER SERVICES, AND PRIVATE INDUSTRY

---CURRENT IMPORTANT PROGRAMS
DEMOLITION KIT BLASTING
BLACKHAWK
FIRING DEVICE DEMO, XM12?
INDEPENDENT LABORATURY IN-HOUSE RESEARCH (ULTRA-VIOLET)
TEST METHOD LOGY AND RESEARCH AND DEVELOPMENT INSTRUMENTATION PROGRAM

... FUNCTIONS/EQUIPMENT/CAPABILITIES

T. JPIC VEGETATION.

TEST FAUTUTIES AND LABORATORIES WITH INSTRUMENT AND EQUIPMENT FOR CONDUCTING TRUPIC TESTS OF DUD MATERIEL IN THE NATURAL ENVIRONMENT INCLUDE EL CFRUNICS, HUMAN HACTURS, CHEMICAL, MICROBIOLOGICAL, MATERIALS, SOILS, CALIBRATION, AUDIO-VISUAL AND DATA ANALYSIS LABORATORIES.

UTHER TEST RESOURCES CONSIST OF FIR.NG RANGE, NATURAL TERRAIN MOBILITY COURSES, AMMO TEST STORAGE AND FUNCTIONING AREAS, JUNGLE GRASS AND COASTAL AND OTHER DEVELOPMENTAL TYPE TESTS PROVIDE ADVICE AND GUIDANCE ON TESTS PACK PORTABILITY COURSE, CALIBRATED SETSMIC DETECTION AND CHEMICAL TEST GRIDS AND 2,500 ACRES OF BRUADLEAF EVEPGREEN TREES, SEMIDECIDUOUS TREES, MARSHLAND, GRASSLAND, CORAL REEFS, FLAT AND HILLY TERRAIN AND ALL TYPES OF

INSTALLATION: WALTER REED ARMY INSTITUTE OF RESEARCH

WASHINGTON, D.C.

CDR.COL. PHILIP K. RUSSELL

	PR	DERAM DATA	A BY FISCAL	L YEAR (MI	LLION S)	
PROGRAM			1979	19	80	
		(A	CTUAL)	LACT + ES	T)	
TUTAL ROTGE			18.954	19.4	09	
TOTAL PROCUREM	ENT		0.000	0.0	00	
TUTAL UEM			1.301	1.6	51	
TOTAL OTHER			7.316	7.5	99	
TUTAL ANNUAL L	≜ В		27.571	28.7	59	
TOTAL INHOUSE			27.571	28.7	50	
TOTAL INHOUSE	RDT&E		18.954	19.4	0.6	
ANNUAL UPERATI	NG CUST		1.749	2.1	69	
	PERSUNN	EL DATA	(END UF FY	1979)		
PERSONNEL	AUTHORIZED		TUTAL	TUT	L	NUN-
	STRENGTH		PHDS	יאט	t:	PROF
MILITARY	473		153	32	7	146
CIVILIAN	440		63	16	6	274
TUTAL	913		216	49	3	420
		SPACE AN	D PROPERTY			
ACRES	SPACE (THU	USANOS OF	SQUARE FE	ET)	CUST (MILI	ION \$)
	LAB	ADMIN	UTHER	TUYAL	REAL PROP	EUUIP
2 0 3	382.974	58.360	0.000	441.334	10.08	17.609

...MISSION

PERFORMS GENERAL MILITARY MEDICINE RESEARCH IN THE AREAS OF COMMUNICABLE DISEASE AND IMMUNDLUGY, SURGERY, EXPERIMENTAL THERAPEUTICS, NEUROPSYCHIATRY GENERAL MEDICINE, AND PREVENTIVE MEDICINE. SERVE AS GOMMAND AND CONTROL ELEMENT FOR THE SPECIAL FUREIGN ACTIVITIES. PLAN AND CONDUCT AMEDD COURSE

...CURRENT IMPURTANT PROGRAMS
BASIC RESEARCH UN MILITARY DISEASES
MILITARY PSYCHIATRY
MICROMAVE INJURY, PREVENTION AND TREATMEN
MILITARY PREVENTIVE MEDICINE AND TRUPICAL DISEASE
DRUG DEVELOPMENT FOR CHEMICAL DEFENSE

...FUNCTIONS/EQUIPMENT/CAPABILITIES

MAJUR EQUIPMENT AND FACILITY CAPABILITY OF THE LAB INCLUDES CHEMICAL ANALYTICAL EQUIPMENT, MICROWAVE HAPDSURE SYSTEMS, MEMAVIDRAL RESEARCH INSTRUMENTATION AND GLECTRON MICROSCOPES ADDITIONAL RESEARCH FACILITIES ARE LUCATED IN GERMANY, KENYA, MALAYSIA, BRAZIL, THAILAND AND MARYLAND.

185.19 180.584

CDR.MG. D. BALL

TECH-DIR-DR. RICHARD H. DUNCAN

4886 - 195

	PRUGRAN	1 DATA BY FISCAL	YFAR (MILLION	s)
PRUGRAM		1979	1980	
		(ACTUAL)	(ACT + EST)	
TOTAL ROTEE		135.495	138.611	
TOTAL PRUCURE	MENY	12.894	16.597	
TOTAL USM		5.409	5.250	
TOTAL UTHER		13.497	56.095	
TOTAL ANNUAL	LAS	167.295	216.553	
TUTAL INHOUSE		144.020	149.432	
TUTAL INHOUSE	RUTGE	112.482	115.412	
ANNUAL OPERAT	ING COST	36.037	37.880	
	PERSONNEL DA	ATA (END OF FY	1979)	
PERSUNNEL	AUTHORIZED	TOTAL	TUTAL	NON-
	STRENGTH	PHUS	PRITE	PROF
MILITARY	922	1	402	520
CIVILIAN	2750	46	1024	1726
TUTAL	3672	47	1426	2246
	SPAC	CE AND PRUPERTY		
ACRES	SPACE (THOUSAND	US OF SQUARE FEE		
	LAB ADI	IN UTHER	TUTAL REAL	rkor fanis

...MISSIUN

4214377

OPERATE A NATIONAL MISSILE RANGE FOR SUPPORT OF ALL APPROVED MISSILE AND RELATED TEST PROGRAMS. INDEPENDENTLY TEST AND EVALUATE ARMY MISSILE AND ROCKET SYSTEMS. ENGINEER AND DEVELOP RANGE INSTRUMENTATION SYSTEMS FOR GATHERING TEST DATA.

469.828 3007.638

...CURRENT IMPURTANT PROGRAMS
SECURE TELEMETRY
HIGH ENERGY LASER INSTRUMENTATION
HIGH INTENSITY SULAR THERMAL FACILITY DESIGN
RADAR 85 (AIRSPACE SURVEILLANCE)
PROJECTILE MUTIUM DETERMINATION

1408.724

...FUNCTIONS/EQUIPMENT/CAPABILITIES

INSURE GROUND AND FLIGHT SAFETY. OBTAIN FLIGHT TRAJECTORY AND EVENT DATA. RECOVER MISSILES OR PORTIONS THEREOF. REDUCE AND PREPARE DATA COLLECTED BY RANGE INSTRUMENTS FOR RANGE USERS. ENGINEER AND DEVELOP RANGE INSTRUMENTATION. INDEPENDENTLY TEST AND EVALUATE ARMY WEAPONS SYSTEMS. EVALUATE GUIDANCE AND CONTROL SYSTEMS, STRUCTURAL INTEGRITY, PROPULSION SYSTEMS, AND ELECTROMAGNETIC RADIATION EFFECTS. ANALYZE CHEMICAL, METALLOGRAPHIC, MICROBIOLOGICAL, AND CLIMATIC—ENVIRONMENTAL EFFECTS. TEST AND EVALUATE WARHEADS AND SPECIAL WEAPONS. SIMULATE WEAPONS SYSTEMS. TEST AND ANALYZE NUCLEAR EFFECTS. TEST COUNTER—COUNTER MEASURES. PROVIDE TEST DATA ON MISSILES AND RELATED PROGRAMS UTILIZING ELECTRONIC AND OPTICAL TRACKING SENSORS AND DATA TRANSMISSION. TEST OTILIZING SOLAR FURNACE.

GUR.GUL. JAMES M. DAVIS, JR. TECH.DIR. RICHARD H. MILLER

PROGRAM DATA BY FISCAL	. YFAR (MILLION \$)
1979	1980
(ACTUAL)	(ACT + EST)
38.333	32.983
1.226	0.300
0.612	0.326
5.052	9.463
45.223	43.072
45.223	38.772
38.333	32.983
9.046	9.794
	(ACTUAL) 38.333 1.226 0.612 5.052 45.223 45.223

	PERSONNEL DATA	(END OF F	Y 1079)	
PERSUNNEL	AUTHORIZED	TUTAL	TOTAL	NUN-
	STRENGTH	4HD2	PRUF	PKOF
MILITARY	383	6	41	342
CIVILIAN	603	0	7 8	525
TUTAL	486	6	119	867

		SPACE AL	10 PROPERTY	Y		
ACRES	SPACE (TH	BUSANDS OF	SQUARE F.	SET)	COST (MILL	(t NCI.
	LAB	ADMIN	UTHER	TUTAL	REAL PRUP	EQUIP
870309	0. 832	112.690	1294.937	1408.459	46.99	b 0.7 26

...MISSION
PLAN, CONDUCT, SPT DT AIR DEL EQ, L-RNGE TUBE ARTY, ACET WPNS SYS, MOB
EQUIP. PLAN, CONDUCT, RPT DESERT TEST. PROVIDE TEST, EVAL ADVICE,
GUIDANCE TO PROSPECTIVE FACILITY USERS. DEVELOP, MAINTAIN MASTER PLAN
FOR INSTALLATION, FACILITIES, METHODOLOGY.

...CURRENT IMPURTANT PROGRAMS
GLOBAL POSITIONING SYSTEM
ADVANCED ATTACK HELICOPTER
IMPROVED TOW VEHICUL
ENHANCED CUBRA ARMAMENT PROGRAM
PROJECTILE 8-INCH XM753

...FUNCTIONS/EQUIPMENT/CAPABILITIES
INSTRUMENTED ARTILLERY KANGE
VEHICLE MOBILITY TEST RANGES AND FACILITY
INSTRUMENTED AIRCRAFT ARMAMENT RANGE
REAL TIME CINETHEODULITE SYSTEM
LASER RANGE TRACKER
POSITION LOCATING DATA COMMUNICATION SYSTEM
INSTRUMENTED DROP ZUNES
ENGINEERING TEST FACILITY
INSTRUMENTATION CALIBRATION FACILITY
SCIENTIFIC COMPUTER CENTER
ENVIRONMENTAL TEST FACILITIES
WEAPONS EVALUATION FACILITY

INSTALLATION: AEROSPACE MEDICAL RESEARCH LABORATORY

PENSAUULA, FL.

CO. CAPT. R. E. MITCHELL

TECH. ADV. DR.A.GRABIEL

	λK	DGRAM DAT	A HY ETSCA	L YEAR (MI	LTON \$)	
PRUGRAM	• • • • • • • • • • • • • • • • • • • •	DONAL DATE	1979	19		
, no sinal,		(A	CTURL)	(ACT + ES		
TOTAL RUTGE			5.652	5.90	52	
TUTAL PROCURE	MENT		0.000	0.00	20	
TUTAL UEM			0.273	0.20	იი	
TUTAL OTHER			0.840	0.89	99	
TUTAL ANNUAL	LAB		6.775	7.00	51	
TUTAL INHUUSE			5.212	5.5	91	
TUTAL INHUUSE	YUT&E		4.113	4.5	0.7	
ANNUAL UPERAT	ING COST		1.139	1.2	4.5	
	PERSONN	EL DATA	(END OF FY	1979)		
PERSONNEL	AUTHURIZED		TUTAL	ATOTA	L	NON-
	STRENGTH		PHUS	PRU	÷	PROF
MILITARY	51		20	2	6	25
CIVILIAN	118		19	5	O	68
FUTAL	169		39	7	6	93
		SPACE AN	U PKUPERTY	,		
ACRES	SPACE (THU	USANUS UF	SQUARE FE	ET)	COST (MILL	ION \$)
	LAB	ADMIN	UTHER	TOTAL	REAL PROP	ENUIP
6	172.546	11.768	6.400	190.714	3.13	4.033

...MISSION

CONDUCT RESEARCH DEVELOPMENT TEST AND EVALUATION IN AFROSPACE MEDICINE AND RELATED SCIENTIFIC AREAS APPLICABLE TO AFROSPACE SYSTEMS.

...CURRENT IMPORTANT PROGRAMS
PHYSIOLOGICAL AND BEHAVIORAL EFFECTS OF NONIONIZING RADIATION
HUMAN DYNAMIC RESPONSE TO IMPACT ACCELERATION AND VIBRATION
AVIATION PERSONNEL SELECTION PSYCHOMOTOR TEST DEVELOPMENT
CREW PERFORMANCE IN NAVAL MOTION ENVIRONMENTS.
AVIATION VISUAL PERFORMANCE REQUIREMENTS AND CAPABILITIES

... FUNCTIONS/EQUIPMENT/CAPABILITIES

MICROWAVE AND EXTREMELY LOW FREQUENCY NONTONIZING RADIATION FACILITY. SLOW RUTATION ROOM. CORTOLIS ACCELERATION PLATFORM. HUMAN DISURIENTATION DEVICE. STILL-WERNER CHAIR. OFF VERTICAL POTATING CHAIR. ANACHOIC AND REVERBERANT CHAMBERS. AUTOMATED PULMONARY FUNCTION. TREADMILL. VECTOR AND ECHOCARDIOGRAPH. THERMOGRAPHIC IMAGING SYSTEM. 30 BINUCULAR EYETTRACKER AND VISUAL STIMULATOR ELECTRON MICROSCOPE. IMPACT FACILITY I MEGA N THRUST ACCELERATOR. 213 M ENVIRONMENTALLY ENCLOSED TRACK. 17.8K N THRUST VERTICAL ACCELERATOR X-KAY CINEMATOGRAPHY. ELECTRODYNAMIC MUTION EXCITORS. C210 SHAKER. SHIP MUTION GENERATOR. 22 CHANNEL INERTIAL DATA ACQUISITION SYSTEMS HIGH SPEED CAMERAS VIVARIUM WITH OPERATING SUITE. EQUIPPED FOR HUMAN AND ANIMAL EXPERIMENTS IN UNUSUAL FURCE ATMOS PHERIC ACQUISTICAL ELECTROMAGNETIC ENVIRONMENTS.

JOHNSVILLE, PA.

INSTALLATION: AIR DEVELOPMENT CENTER

CO. COR. P. DUDLEY

TECH.DIR. DR.R.K. LUBB

	PROGRAM DATA BY FISCAL	YEAR (MILLIUN \$)
PROGRAM	1979	1480
	(ACTUAL)	(ACT + EST)
TOTAL ROTEE	127.081	133.095
TOTAL PROCUREMENT	28.562	30.713
TOTAL DEM	13.999	18.241
TUTAL UTHER	11.554	13.625
TUTAL ANNUAL LAB	181.196	195.674
TOTAL INHOUSE	89.336	89.620
TOTAL INHOUSE ROYGE	61.190	58.921
ANNUAL OPERATING COST	29.545	33.609

	PERSONNEL DATA	(END OF FY	' 197 9)	
PERSONNEL	AUTHURIZED	TOTAL	TOTAL	NON-
	STRENGTH	PHDS	P30F	PROF
MILITARY	290	4	86	204
CIVILIAN	2109	27	1085	1024
TUVAL	2399	31	1171	1228

ACRES	SPACE LTHU		D PROPERTY SQUARE FE		COST IMILL	ION \$)
	LAB	ADMIN	UTHER	TOTAL	REAL PRUP	EQUIP
840	825.000	83.000	654.000	1562.000	33.00	51.754

...MISSION
TO BE THE PRINCIPAL NAVY RUTGE CENTER FOR NAVAL AIRCRAFT SYSTEMS
LESS AIRCRAFT LAUNCHED WEAPON SYSTEMS

***CURRENT IMPORTANT PROGRAMS

JARRIER ANTI-SUBMARINE WARFARE MODULE
5-3A,F-14,F-18,VP PROGRAM

LIGHT AIRBORNE MULTI-PURPOSE SYSTEMS

V/STOL

J-TIDS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
AIRCRAFT SYSTEMS SIMULATION, AIRBORNE SEARCH & RESCUE, INERTIAL
NAVIGATION TECHNOLOGY, AIR VEHICLE TECHNOLOGY STRUCTURES, MATERIALS,
FLIGHT DYNAMICS, PERFORMANCE, FLIGHT CONTROL, AIRBORNE ASW SYSTEMS.
DEVELOP & INTEGRATION OF AIRBORNE SYSTEMS INCLUDING ELECTRONIC
SURVEILLANCE & COUNTER MEASURES, COMMUNICATIONS, NAVIGATION INFORMATION
PROCESSING & DISPLAY, ENVIRONMENTAL SENSING, ELECTROMAGNETIC/MAGNETIC,
ACOUSTIC, ELECTROMOPTIC, & PHOTOGRAPHIC, A/C SUPPORT SYSTEMS, A/C COST
METHODOLOGY AND LOGISTICS, AGROSPACE MEDICINE AND AVIATION PHYSIOLOGY
AND SUPPORT TO OTHER ACTIVITIES AS DIRECTED

TRENTON . N. J.

INSTALLATION: AIR PROPULSION CENTER

CO. CAPT. B. F. ALLGOOD, JR. TECH-CONSUL-MR. B.T. MCWILLIAMS

	PRUGRAM DA	TA BY FISCAL	YEAR (MILLION	\$ }
PROGRAM		1979	1980	
	· ·	ACTUAL)	(ACT + FST)	
TOTAL ROTGE		24.458	34.133	
TOTAL PROCUREM	ENT	2.771	3.399	
TOTAL USM		0.215	0.960	
TUTAL OTHER		1.183	1.271	
TOTAL ANNUAL L	AB	28.627	38.963	
TUTAL INHOUSE		21.044	23.770	
TOTAL INHOUSE	RUTEE	18.304	19.647	
ANNUAL UPERATI	NG COST	6.538	7.511	
	PERSUNNEL DATA	(END OF FY	1979)	
PERSONNEL	AUTHURIZED	TOTAL	YOTAL	NON-
	STRENGTH	PHDS	PROF	PROF
MILITARY	ಕ	0	ę	Q
CIVILIAN	387	O	155	432
TUTAL	595	0	163	432
	SPACE A	NU PRUPERTY		

		STACE AN	D FNOFERT			
ACRES	SPACE (THE	JUSANDS OF	SQUARE FE	ET)	COST (MILL	IUN \$)
	LAB	MIMUA	UTHER	TUTAL	REAL PROP	EQUIP
68	376.704	37.973	211.766	626.443	50.97	11.516

...MISSION

PROVIDE NAVAIR & FLEET COMPLETE TECHNICAL & ENGINEERING SUPPORT FOR AIR-BREATHING PROPULSION SYSTEMS; ACCESSORIES, COMPONENTS AND FUELS & LUBE; MANAGE AND PERFORM APPLIED R&D ON NEW PROPULSION SYSTEMS, EVALUATE NEW SYSTEMS. BY T&E ASSURE MISSION ACCUMPLISHMENT AND SOLVE FLEET PROBLEMS.

...CURRENT IMPORTANT PROGRAMS
CRUISE MISSILE ENGINE (F107) DEVELOPMENT & QUALIFICATION TESTING
F404-GE-400 ENGINE DEVELOPMENT & QUALIFICATION TESTING
TF30-P414/414A ENGINE STABILITY & PERFORMANCE EVALUATION
TF30-P-414A ENGINE BASELINE PERFORMANCE/SHALE-OIL FUEL TEST
TF700-GE-401 ENGINE CORROSION SUSCEPTIBILITY TEST

...FUNCTIUMS/EQUIPMENT/CAPABILITIES

THREE LANGE ALTITUDE CELLS, TWO LARGE SEA LEVEL CELLS AND FOUR SMALL ALTITUDE CELLS PROVIDE ENVIRONMENTAL AND FLIGHT SIMULATION CAPABILITY OF SEA LEVEL TO 100000 FEET; MINUS 65 TO PLUS 650 DEGREES F, FLIGHT SPEEDS FROM ZERO TO MACH 3 TO TEST TURBOJETZFAN AND TURBOPROPZSHAFT ENGINES. SEVEN TEST ROOMS TEST STARTERS, ACCESSORIES AND AUXILIARY POWER UNITS. EIGHT TEST ROOMS AND CHEMISTRY LAB USED FOR R&D ON FUELS, LUBES AND BEARINGS. SPECIAL TEST FACILITIES ARE ROTOR SPIN FACILITY, HELICOPTER TRANSMISSION STAND, GYRO RIG, ENGINE TURNTABLE AND DEMISTER TEST CELL. FACILITIES ARE USED FOR R&D ON ADVANCED FUELS AND LUBRICATING DILS, UIL—WETTED ENGINE COMPONENTS, AIR PULLUTION, LOW CYCLE FATIGUE, CONTAINMENT, NOISE AND IZR PROGRAMS, NAPC QUALS UILS, MANAGES NAVY EXPLORATORY AND ADVIDED PRGMS, PROVIDES AUMN & TECH DIR TO SELECTED NAVAIR CONTRACTS.

INSTALLATION: AIR TEST CENTER

CO. RAUM J.G. WISSLER

TECH-DIR-MR.JOHN B. PARADIS

4815.773

161.41

23.521

	PRUGRAM	DATA BY FISCAL	YEAR (MILLION	\$)		
PROGRAM		1979	1980			
		(ACTUAL)	(ACT + EST)			
TUTAL RUTGE		68.311	81.450			
TUTAL PRUCURE	MENT	16.919	13.414			
MAG LATOT		12.297	13.730			
TUTAL UTHER		25.713	24.684			
TUTAL ANNUAL	LAB	123.240	133.278			
TOTAL INHOUSE		97.914	9 7. 2 9 6			
TUTAL INHOUSE	RDT&E	50.801	54.740			
ANNUAL UPERAT	ING COST	52.652	58.917			
	PERSUNNEL DA	TA LEND OF FY	1979)			
PERSONNEL	AUTHORIZED	TUTAL	TUTAL	NON-		
	STRENGTH	PHD\$	PROF	PROF		
MILITARY	1565	3	193	1372		
CIVILIAN	2001	4	351	50م1		
TUTAL	3566	12	544	3022		
SPACE AND PROPERTY						
ACRES	SPACE (THUUSAND	S OF SQUARE FEE	ET) COST	(MILLION \$)		
	LAB AUM	IN OTHER	TUTAL REAL	PROP EQUIP		

...MISSIUN

7106

MISSIUN-CUNDUCT TECH EVALS & HIS FRIALS, TRAIN TEST PILOTS, TEST& EVALUATE TUTAL AZC, THEIR MISSIUN SYSTEMS & ALL SUBSYSTEMS & COMPONENTS, RELATED SUPPORT SYSTEMS & ILS. PROVIDE TECH ADVICE & ASSISTANCE TO NASC & OTHERS TO TRAIN TEST PILOTS & TO DEVELOP AZC TESTING TECHNOLOGY.

951.106 363.500 3501.167

... CURRENT IMPURTANT PROGRAMS

PRINCIPAL SITE FUR FULL SCALE DEVELMENT, TESTSEVALUATION, AND BIS TRIALS OF ALL NAVY/MARINE A/C SUCH AS F14, F18, A4, A6, A7, EA6, AV8, LAMPS, P3, EP3E, E2 EC130, AH1, UH1, CH53, SH2, SH3, PLUS THEIR ASSOCIATED SIMULATORS, GROUND SUPPORT EQUIP, A/C COMPUTARS SOFTWARE, RELIABILITY, MAINTAINABILITY, HUMAN FACTORS, ELEC WARFARE, ACLS, MLS, & CARRIER & AIRFIFLD CERTIFICATIONS.

... FUNCTIONS/EQUIPMENT/CAPABILITIES

FACILITIES INCLUDE LARGE RESTRICTED AIRSPACE, REAL-TIME RANGEGA/C TEST DATA PROCESSING, COMPUTER GSOFTWARE THE LABS, CATAPOLYSARRESTING GEARS, ACLS SITES, ELECTROMAGNETIC SHIELDED HANGAR, GUN FIRING TONNELS, ENVIRONMENTAL TESTING FACILITIES, RECTRICAL POWER & CONTROL TESTING LABS, INSTRUMENTED SUNDBODY RANGE, ASW SYSTEMS LABS, BIOMEDICAL GHUMAN FACTORS LABS, EXTENSIVE INSTRUMENTATION DESIGN& CONSTRUCTION FACILITIES, WATER EDGE LOW ELECTROMAGNETIC NOISE TEST AREA, ELECTROMOPTICAL TARGETSETEST RANGE, ENGINE TEST CELL & THRUST STAND, BROADBAND EW TEST RANGE, VSTOL TEST STTE, SURFACE EFFECT SHIP TEST FACILITY.

INSTALLATION: ARCTIC RESEARCH LABORATURY

BARRUW, AK.

CU. LCUR. MICHAEL BROWN

	PROGRAM U	ATA BY FISCA	AL YEAR (MILLIC	IN 5)
PROGRAM		L479	1980	
		(ACTUAL)	(ACT + EST)	
TUTAL RUTGE		8.841	6.517	
TOTAL PROCUR	EMENT	0.000	0.000	
TUTAL UEM		0.060	0.173	
TOTAL UTHER		1.475	1.879	
TOTAL ANNUAL	LAH	10.376	8.569	
TOTAL INHOUS	t E	0.056	0.056	
TUTAL INHOUS		0.000	0.000	
ANNUAL OPERA	TING COST	5.742	6.117	
	PERSUNNEL DATA	(LIND DE EX	(1979)	
PERSONNEL	AUTHURIZED	TUTAL	TOTAL	NUN-
	STRUNGTH	PHUS	PROF	PROF
MILITARY	3	Ú	2	1
CIVILIAN	ń	0	n	0
TUTAL	3	O	2	1
	SPACE	AND PRUPERTY	1	
ACRES	SPACE (THOUSANUS			ST (MILLION 8)
******	LAB AUMIN			AL PROP EQUIP
L487	47,310 15,987			13-15 1-675

...MISSION

PROVIDE FACILITIES AND SERVICES FOR ACCUMPLISHING PROGRAMS OF BASIC AND APPLIED RESEARCH WHICH CONTRIBUTE TO SUCCESSFUL NAVY OPERATIONS IN THE ARCTIC REGIONS AND ENVIRONMENT.

... CURRENT IMPURTANT PROGRAMS

STUDY PHYSICAL PROPERTIES, OPTICAL CHARACTERISTICS AND CHEMICAL COMPOSI-TION OF ARCTIC AEROSOLS.

CONSTRUCT SEDIMENT DISTRIBUTION CHAPT OF THE ARCTIC HASIN DEVELOP RELATIONSHIPS BETWEEN ICE, AIR AND WATER OF THE ARCTIC OCEAN. STUDY THE PHYSICAL OCEANUGRAPHY OF THE BARENTS AND KARA SPAS.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

THE FACILITY CONSISTS OF 116 SEMI-PERMANENT BUILDINGS (TO BE REDUCED BY 50 BLDGS BY FY80) INCLUDING A LABORATORY-ADMINISTRATION-BILLETING BLDG WHICH HAS 43 LABORATORY SPACES, SLEEPING QUARTERS FOR 100 PEOPLE, ADMIN OFFICES, SAME ROOM, MUSEUM OF ARCTIC FAUNA AND ARCHELOGY AND A LIBRARY OF POLAR URIENTED PUBLICATIONS. THE LAB PROVIDES FACILITIES MAINTENANCE, UTILITY GENERATION AND DISTRIBUTION, MOTOR VEHICLE OPERATIONS AND MAINENANCE, FIRE PROTECTION AND SECURITY, JANIFORIAL SERVICE, COMMUNICATIONS, AIRPORT OPERATION, MEDICAL SUPPURT, FOOD SERVICES, AND PROVISION OF SPECIAL SERVICES, INCLUDING LAUNDRY, RECREATION AND RESALE ACTIVITIES. THE LABS CAPABILITY INCLUDES LIMTED SUPPORT OF MILITARY OPERATIONS IN THE ARCTIC INCLUDING SEARCH AND RESCUE.

INSTALLATION: ATLANTIC FLEET WEAPONS TRAINING FACILITY

ROUSEVELT ROADS, P.R.

CU. CAPT. R. M. BRUWN

TECH-DIR. MR. THOMAS RAMIREZ

PROGRAM	PROGRAM U	ATA BY 197		YEAR (MILLION 1980	\$)
		(ACTUAL		(ACT + EST)	
TUTAL RUTEE		J.23	9	0.209	
TUTAL PROCUREMENT		4.79	1	4.711	
TUTAL OEM		11.07	8	11.941	
TUTAL OTHER		1.93	5	2.034	
TOTAL ANNUAL LAD		18.04	3	18.895	
TOTAL INHOUSE		3.80	1	3.762	
TUTAL INHUUSE ROTEE		0.20	2	0.177	
ANNUAL OPERATING COST		1.09	2	0.979	

	PERSONNEL DATA	(END JF F	Y 1979;	
PERSONNEL	AUTHURIZED	TUTAL	TOTAL	NUN-
	STRENGTH	PHUS	PRÚF	PROF
MILITARY	100	0	30	70
CIVILIAN	34	0	19	15
TOTAL	134	O	49	8.5

		SPACE AN	U PROPERTY			
ACRES	SPACE (THU	JUSANUS OF	SQUARE FEE	T)	COST (MILL	ICN \$)
	LAB	AUMIN	OTHER	TOTAL	REAL PROP	EQUIP
3602	0.000	14.957	154.005	168.962	10.90	96.798

NOEZZIM...

TO OPERATE, MAINTAIN AND DEVELOP WEAPONS TRAINING FACILITIES AND SERVICES IN DIRECT SUPPORT OF THE TRAINING OF FLEET FORCES AND OTHER ACTIVITIES, AND FOR THE DEVELOPMENT, TEST AND EVALUATION OF WEAPONS SYSTEMS.

...CURRENT IMPORTANT PROGRAMS
MOBILE SEA RANGE DEVELOPMENT SUPPURT
AN/SWS-56 SUNAR TESTING
CNU111-UT-48 SLQ 32 TESTING
CNU111-UT-48 SLQ 32 TESTING
FFG-7 TRIALS

... FUNC FIONS/EQUIPMENT/CAPABILITIES

NAVYS LARGEST TRAINING FAC. FOR ATLANTIC FORCES WITH 202,000 SQ.MI. COM-BINED SEA AREA FOR AIR, SURFACE AND SUBSURFACE WARFARE OPERATIONS.CENTRAL COMMANU AND CONTROL SYSTEM WITH NTDS LINKING, REALISTIC EW ENVIRONMENT, SURVEILLANCE/TRACK RADARS.AIR/SURFACE TARGET PRESENTATION, LARGE SCREEN DISPLAY SYSTEM FOR UPS MONITOR/CONTROL, EVENT RECONSTRUCTION.AND VARIOUS INSTRUMENTATION SYSTEMS BASED AROUND A UNIVAC 1230 COMPUTER SYSTEM WITH A SEXTENDED CORE MEMORY UNIT.FLTAC FIELD STATION FOR MISSILE ANALYSISAND EVALUATION. AIR TO GRND AND SURFACE TO SURFACE WEAPONS TARGET FACILITIES FOR CUNVENTIONAL AIRCRAFT ORDNANCE DELIVERY, STRAFING AND NAVAL GUNFIPE WITH RADAR, TV BOMB SCURING SYSTEM AND OTHER SCORING/SPUTTING SYSTEMS.UNDERWATER RANGE FOR PRECISION SURFACE AND SUBSURFACE TRACKING, WSATS AND FORACS.NAVSTA PROVIDES FOR AIRCRAFT/SHIPS LOGISTIC SUPPORT, BOQ AND BEQ.

INSTALLATION: BIOSCIENCES LABORATURY

DAKLAND, CA.

CU. CAPT-J.F.PRIBNOW

SCI-DIR. UR.N.A.VEDRUS

	PR	DGRAM DAT	A BY FISCA	L YEAR (M)	ILLION :	5)	
PROGRAM			1979	19	28A		
		(4	CTUAL)	(ACT + ES	(Y2		
TUTAL RUTGE			2.46	2.7	119		
TOTAL PROCURI	EMENT		0.000	0.0	100		
TUTAL ULM			0.000	0.0	000		
TOTAL UTHER			1.117	0.9) 12		
TUTAL ANNUAL	LAB		3.563	3.2	231		
TOTAL INHOUSE	Ė		0.895	0.1	330		
TOTAL INHUUSE	RUTEE		0.591		-31		
ANNUAL OPERA	TING COST		0.697	0.0	522		
	PERSONN	EL JATA	CEND OF FY	(1979)			
PERSONNEL	AUTHORIZED		TOTAL	TOTA	A L		NON-
	STRENGTH		PHDS	PRO)F		PROF
MILITARY	9		2		5		4
CIVILIAN	6		0		Ó		6
TUTAL	15		2		5		10
		SPACE AN	NU PRUPERTY	,			
ACRES	SPACE (THU	-			COST	(MILL	ION S)
	LAB		UTHER		REAL	PROP	LUUIP
5	77.625	8.731	34.646	121-902	—	.00	5.400

***MISSION
THE MISSION OF THE SIGSCIENCES LABORATORY IS TO CONDUCT RESEARCH AND DEVELOPMENT IN THE BIOSCIENCES RELATED TO THE NEEDS OF THE NAVAL ESTABLISHMENT.

...CURRENT IMPURTANT PROGRAMS
STUDY THE EFFECT OF ENERGY CONSERVATION MEASURES ON AIR HYGIENE CONTROL FOOLING OF OPTICAL SURFACES IN A MARINE ENVIRONMENT ASSESS THE BIOHAZARD KISK OF LABORATORY OPERATIONS
ISOLATION AND JESTING OF ANTIVIRAL SUBSTANCES FROM MARINE ALGAE CHARACTERIZE THE IMMUNE SYSTEMS OF MAKINE MAMMALS USED BY THE NAVY

EQUIPMENT INCLUDES MINIATURE DEEP FREEZE AND MINIATURE FILLD INCUBATORS FOR VIRUS ISOLATION, RUTATING DRUM USED TO INVESTIGATE EFFECT OF LIGHT ON AEROSOLIZED MICRU-ORGANISMS AND PHOTOCHEMICAL REACTIONS, A HYPERBARIC TEST FACILITY, MICROAEROFLUUROMETER USED TO TRACK AEROSOL CLOUDS AND CLASS IV CONTAINMENT FACILITIES FOR HANDLING EXTREMELY PATHOGENIC VIRUS AND BACTERIA, CONTINUOUS FLOW LIQUID WASTE DECONTAMINATION UNIT, PROCESS AIR DECONTAMINATION SYSTEM, MOVABLE 400 LITER AEROSOL TEST CHAMBERS. ELECTRON SPIN RESONANCE AND NUCLEAR MAGNETIC RESONANCE SPECTROMETERS, SPECTROPHOTOMETER, SPECTROFLUROMETER AND BOTH SCANNING AND TRANSMISSION ELECTRON MICRUSCOPES. THE EQUIPMENT IS CONTINUOUSLY BEING MODIFIED AND EXPANDED ACCORDING TO CURRENT PROJECTS. NBL IS A CONTRACT BASIC RESEARCH LAB WITH THE UCS.MAJURITY OF SCIENTIFIC ETEC PERONNEL ARE UCB EMPLOYEES.

INSTALLATION: CIVIL ENGINEERING LABORATURY

PORT HUENEME, CA.

CU. CAPT. RUNALU P. COPE

TECH-DIR. WILLIAM F. BURKART

	PROGRAM DATA BY FISCAL	YEAR (MILLION \$)
PRUGRAM	1979	1980
	(ACTUAL)	(ACT + EST)
TUTAL RDT&E	22.850	24.046
TOTAL PROGUREMENT	0.219	0.310
TOTAL USM	2.308	2.219
TUTAL OTHER	1.400	1.375
HAL LAUNNA LATUT	26.777	27.950
TUTAL INHOUSE	13.423	14.791
TUTAL INHOUSE ROTRE	11.724	12.701
ANNUAL UPERATING CUST	3.115	3.751

	PERSUNNEL DATA	(END UF F	Y 1979)	
PERSONNÉL	AJTHORIZED	TUTAL	TOTAL	NON-
	STRENGTA	PHDS	PRUF	PKOF
MILITARY	16	1	9	8
CIVILIAN	309	2.8	170	139
TUTAL	325	به 2	178	147

		SPACE AN	O PROPERTY			
ACKES	SPACE (THU	JUSANUS 11F	SQUARE FEI	ET)	CUST (MILL	10N \$)
	LAB	ADMIN	UTHER	TOTAL	REAL PRUP	EUUIP
30	81.840	71.748	44.158	197.746	7.59	3.429

...MISSIUN

MISSION OF LABORATORY IS TO BE THE PRINCIPAL ROTSE CENTER FOR NAVY SHORE FACILITIES, FIXED SURFACE AND SUBSURFACE OCEAN. FACILITIES AND FOR THE NAVY AND MARINE CORPS CONSTRUCTION FORCES.

... CURRENT IMPURTANT PROGRAMS

NAVY SHURE FACILITIES SUPPORT. NAVY SEAFLOUR INSTALLATIONS, AMPHIBIOUS & ADVANCED BASE TECHNOLOGY. ENVIRONMENTAL PROTECTION. URGANIC MATERIALS. ENERGY TECHNOLOGY. DEEP OCEAN TECHNOLOGY. OFFSHORE BULK FUEL TRANSFER. INDEPENDENT EXPLORATORY DEVELOPMENT. INDEPENDENT RESEARCH. CONTAINER OFF-LUADING TRANSFER SYSTEM (COTS). MARINE CORPS. ARMY.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

PRESSURE VESSEL FACILITY WITH 9-72 INCH VESSELS SIMULATING PRESSURES TO UCEAN DEPTHS OF 20,000 FEET. DIVING LUCKER AND EQUIPMENT FOR 10 DIVERS. SEA FLUUR SOILS LAB. ENERGY TEST BED. CLASS G PHOTO LAB. PHYSICAL SECURITY LABS. CHEMISTRY LAB. INSTRUMENTATION LAB. WARPING TOG ELECTRO-MAGNETIC FACILITY CURROSION & METALLURGICAL LABS. ENVIRONMENTAL RESEARCH LAB. CDC 8090 TERMINAL WITH HIGH SPEED READER 4 LINE PRINTER. DIGITAL MAG TAPE. PEN PLOTTER. CURRENT SENSOR LAB. ENERGY MUNITURING CAPABILI Y. PROTUTYPE MACHINE, WELDING, CARPENTER, AND RIGGING SHOPS. SHALLOW OCFAN SIMULATING FACILITY. MATERIAL TESTING LAB. ELECTRICAL SYSTEMS LAB. CONCRETE MIXING LAB. AGGREGATE PROCESSING LAB. DATA PROCESSING CENTER.

CU. COR. DUNALD S. PARSONS

	PRI	JGRAM DAFA	BY FISCA	L YEAR (MIL	LION \$)	
PROGRAM			1979	708	30	
		(AC	STUAL)	IACT + FST	r)	
TOTAL ROTEE			1.060	1.30	14	
TOTAL PRUCURE	MENI		0.000	0.00	00	
TOTAL USM			1.067	0.99	94	
TUTAL UTHER			0.029	0.2	lo	
TUTAL ANNUAL	LAS		2.156	2.5	14	
TUTAL INHOUSE			1.989	1.86	52	
TUTAL INHUUSE	ROTEL		1.060	0.91	30	
ANNUAL UPERAT	ING COST		0.032	0.00	50	
	PERSONN	EL JATA	(END OF FY	1979)		
PERSONNEL	AJTHURIZED		TOTAL	TOTAL	L.	NÜN-
	STRENGTH		PHUS	PR()	r ·	PROF
MILITARY	1		O		1	0
CIVILIAN	55		1	3.	7	18
TOTAL	56		1	3	8	18
		SPACE ANI	O PROPERTY	•		
AURES	SMACE (THU	USANUS UF	SQUARE FE	ET)	CUST (M)	(LLION 5)
	LAB	AUMIN	UTHER	TOTAL	REAL PRO	IP EQUIP
1			3.000			

...MISSION CONDUCT RESEARCH DEVELOPMENT TEST & EVALUATION &PROVIDE ENGINEERING SUPPORT IN COUTHING TEXTILES & RECATED FIFLDS ASSOCIATED WITH SERVICE COUTHING & ENVIRONMENTAL PROTECTIVE CLOTHING

...CURRENT IMPORTANT PROGRAMS
WUMEN'S SEA ENVIRONMENTAL PROTECTIVE CLOTHING
FLAME—RETARDANT MATERIALS AND GLOTHING CONCEPTS
BATTLE DRESS CLUTHING
ENERGY CONVERSIONS SYSTEM FOR PROTECTIVE CLOTHING
SHIPBUARD DAMAGE CONTRUL CLOTHING

...FUNCTIONS/EQUIPMENT/CAPABILITIFS

AIR-SEA ENVIRUNMENTAL TEMPERATURE LAB, AIR CHAMBER-MARINE TANK REPRODUCES AIR-SEA TEMP CONDITIONS FOR WATER IMMERSION PHYSIOLOGY & BUDYANCY TESTS ENVIRONMENTAL TEST CHAMBER FOR EVALUATING PROTECTIVE CLOTHING UNDER WORK STRESS & EXTREME TEMPERATURES. HYDRUSPACE SIMULATOR, PRESSURE CHAMBER FOR DEPTH SIMULATION STUDIES

HYURDSPACE SIMULATOR, PRESSURE CHAMBER FOR DEPTH SIMULATION STUDIES PRESSURE EFFECTS ON GLOTHING MATERIAL PROPERTIES.

THERMAL FLAMMABILITY APPARATUS FOR CUNDUCTING FLAME RETARDANCY,

FLAMMABILITY & HEAT RESISTANCE MATERIAL TESTING. CHEMICAL & PHYSICAL FESTING EQUIPMENT FOR CONDUCTING ROTEE ON FABRICS.

YARNS, FIBERS, LEATHER, PLASFICS, RUBBEK, DYES & FINISHES.

SEWING MACHINES & PATTERN DRAFTING FOR DEVELOPING GARMENTS

CU. CAPT. KAYMOND U. BENNETT TECH. DIR. MR. GERALD G. GOULD

	PRUGRAM DATA BY FISCAL	. YEAR (MILLIUN S)
PRUGRAM	1979	1980
	(ACTUAL)	(ACT + FST)
TUTAL ROTEE	33.067	40.611
TOTAL PROGUREMENT	3.909	5.454
TUTAL UEM	6.448	6.901
TOTAL UTHER	3.474	2.625
TOTAL ANNUAL LAS	46.198	55.491
TUTAL INHOUSE	25.547	27.528
TUTAL INHOUSE RUTGE	16.980	19.119
ANNUAL OFFRATING COST	8.218	9.466

	PERSUNNEL JATA	(END OF FY	1979)	
PERSUNNEL	AUTHÜRIZED	TOTAL	TOTAL	NON-
	STRENGTH	PHDS	PROF	PRUF
MILITARY	111	()	12	99
CIVILIAN	621	21	264	352
TOTAL	732	21	281	451

	ensel Itu		D PROPERTY	= T \	CUST (MILL	TON .
AURES		NIMCA	SHUARE FEE			
665	346.019	38.150	247.230	631.399	33.21	17.280

...4ISS10N

TO BE THE PRINCIPAL NAVY ACTIVITY FUR CONDUCTING RUTSE IN SUPPORT OF NAVAL MISSIONS AND OPERATIONS THAT TAKE PLACE PRIMARILY IN THE COASTAL (CONTINENTAL SHELF) REGIONS.

...CURRENT IMPORTANT PROGRAMS
DIVING, SALVAGE, AND SPECIAL WARFARE
MIME COUNTERMEASURES
TURPEDO AND SONAR COUNTERMEASURES
AMPHIBIOUS/INSHORE WARFARE SUPPORT
COASTAL TECHNOLOGY AND ADVANCED/SPECIAL CRAFT TEE

...FUNCTIONS/EQUIPMENT/CAPABILITIES

UCEAN SIMULATION FAC. HYDRUSPACE LAB. HYDPODYNAMIC PRESSURE SIMULATOR.
SWIMMER/DIVER R&D FAC. WET SUBMERSIBLE VEHICLE FAC. GAS ANALYSIS LAB.
TWO DEFSHORE PLATFURMS WITH LIVING QUARTERS FUR 30 & 6 PEOPLE. MAGNETIC
TARGET DETECTION & CLASSIFICATION RANGE. SYSTEMS DEVELOPMENT & TEST FAC.
MAGNETIC LAB. CALIBRATION & STANDARDS FAC. MECHANICAL CALIBRATION LAB.
DPTICAL COSITIONING SYSTEM. POST RUN ANALYSIS SYSTEM. PURTABLE TRACKING.
ELECTRUNIC TRACKING RANGE. ACOUSTIC TEST FAC. PRECISION ACOUSTIC TANK.
ACOUSTIC ANALYSIS FACILITY. TRANSDUCER LAB AND CALIBRATION FACILITY.
SUNAR TEST BED FACILITY. CABLE TEST FACILITY. COUNTERMEASURES EVALUATOR.
BURROUGHS B-5700 DIGITAL COMPUTER. ENVIRONMENTAL MONITORING FACILITY.
INDUSTRIAL SHOPS. PIER SPACE & BOATS TO INCLUDE RESEARCH VESSEL, ATHENA.
MSU-443. USS FIDELITY. HELIPORT CUMPLEX WITH 2 RH530 & 1 UHIE HELOS.

PETHESDA.MO.

INSTALLATION: DAVID W. TAYLUR SHIP RED CENTER

CG. CAPT. M.V. RYCKETTS

TECH-DIR-DR. A. POWELL

	PA	BOGRAM DAT	A HS ETSCA	L YEAR (MI	(TON &)	
PROGRAM	• ,		1979	199		
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(A		(ACT + EST		
TOTAL ROTGE			25 978	132.4		
TOTAL PROCURE	MENT	_	13.058	12.1		
TOTAL DEM			24.183	23.00		
TUTAL UTHER			14.025	10.8	P.4	
TOTAL ANNUAL	LAB	1.	77.244	178.4	1.1	
TUTAL INHUUSE		1	09.356	110.7	76	
TOTAL INHOUSE	KUTEE		73.218	78.13	29	
ANNUAL UPERAT	ING COST		36.247	49.21	57	
	PERSON	EL UATA	(END OF FY	Y 1979)		
PERSONNEL	AUTHORIZE	3	YOTAL	TOTAL	L	NUN-
	STRENGT	1	PHOS	PRUI	F.	PROF
MILITARY	78	3	-	2	2	`56
CIVILIAN	248)	125	1160	ь	1323
TOTAL	256	7	127	118	3	1379
		SPACE AN	O PROPERT	Y		
ACRES	SPACE L'THE	HO SCHAZUC	SQUARE FI	EET)	COST MILL	ION \$)
				TUTAL		
324	1709.038	102.847	245.262	2057.147	70.90	69.889

...MISSION

TO SE THE PRINCIPAL NAVY ROTSE CENTER FOR NAVAL VEHICLES AND LOGISTICS, AND TO PROVIDE ROTSE SUPPORT TO THE U.S. MARITIME ADMINISTRATION AND THE MARITIME INDUSTRY.

...CURRENT IMPORTANT PRUGRAMS SUBMARINE SILENCING, TARGET STRENGTH REDUCTION, SUBMARINE MANEUVERING, PRESSURE HULLS, PROPELLER DESIGN, ELECTRIC PROPULSION, CIRCULATION CONTROL RUTURS AND WINGS, ENERGY CONSERVATION AND SOURCES, HIGH STRENGTH STEEL, HYDROFOILS, SWATH, SURVIVABILITY, LOGISTICS.

... FUNCTIONS/EQUIPMENT/LAPABILITIES

PLAN AND CONDUCT RUTGE FOR NAVAL VEHICLES (SHIPS, SUBMARINES & AIRCRAFT) AND SUPPORT THE UPERATING FORCES IN THE AREAS OF SHIPS SYSTEMS DEVELOP-MENT AND TECHNOLOGY (HYDRODYNAMICS, STRUCTURES, ACROSTICS, PROPULSION AND AUXILIARY MACHINERY SYSTEMS, SHIPS MATERIALS ENGINEFRING, COMPUTER-AIDED SHIP DESIGN), AIRBORNE AERODYNAMICS AND LOGISTICS.
FACILITIES INCLUDE: SHALLOW AND DEEP WATER TOWING BASINS, MANEUVERING & SEAKEEPING BASIN, WIND TUNNELS, ANECHOIC FLOW FATYLITY, WATER TUNNELS, STRUCTURAL EVALUATION LAB, UNDERWATER EXPLOSIONS LABORATORY BARGE, SEVERAL LARGE PRESSURE TANKS, SUBMARINE INTERNAL FLUID DYNAMICS FACILITY, METALLURGICAL CHARACTERIZATION AND EVALUATION FACILITY, WLDING DEVELOPMENT LABORATORY.

CO. CAPT. M.R. WIRTHLIN JR.

	PŘUG	RAM DAT	A BY FISCA	L YEAR (MI	LLION \$)	
PRUGRAM			1979	19	80	
		(A	CTUAL	(ACT + ES	T)	
TOTAL ROTEE			0.697	0.8	30	
TUTAL PROCUR	EMENT		0.000	0.0	00	
TOTAL UEM			0.000	0.0	000	
TOTAL OTHER			0.545	0.5	83	
TOTAL ANNUAL	LAB		1.242	1.4	13	
TUTAL INHOUSE	-		1.242	1.4	13	
TUTAL INHOUSE	E RUTEE		0.697	0.8	30	
ANNUAL OPERA	ring cust		0.254	0.3	20	
	PERSUNNEL	UATA	(END OF FY	1979)		
PERSONNEL	AUTHOR12ED		TUTAL	TOTA	L	NON-
	STRENGTH		PHDS	PRO	F	PROF
MILITARY	29		12	1	.6	13
CÍVILÍAN	10		3	•	4	14
TUTAL			15	2	20	27
			n PRUPERTY			
ACRES	the second second		SQUARE FE		COST (MILL	_ION \$)
	* * *		OTHER		REAL PROP	
U	230000	6.923	15.714	36 • 556	0.00	0.578

...MISSIGA

TO CONDUCT RESEARCH, DEVELOPMENT, TEST, AND EVALUATION IN DENTAL AND ALLIED SCIENCES, WITH PARTICULAR EMPHASIS ON PROBLEMS OF DENTAL AND ORAL HEALTH IN NAVY AND MARINE CURPS POPULATIONS ASHORE, AFLOAT AND IN THE FIELD.

...CURRENT IMPURTANT PROGRAMS
MONITORING ORAL HEALTH OF NAVAL PERSONNEL
PROCEDURES FOR FREAFMENT OF DENTAL PULP DISEASE
WOUND HEALING OF SUPPORTING TISSUES
NAVY DENTAL TECHNICIAN OTTELIZATION
DENTAL EQUIPMENT DEVELOPMENT AND EVALUATION OF FLEET HEALTH

...FUNCTIONS/EQUIPMENT/CAPABILITIES
AMINU AUID ANALYZER/ATUMIC ABSURPTION UNIT/FLOURIDE FLECTRODES/
SCINTILATION COUNTER/MINI COMPUTER/GAS CHROMATOGRAPH UNIT/FOUR DENTAL
UNITS/FOUR DENTAL CHAIRS/TRANSMISSION ELECTRON MICROSCOPE DIAZZU PROCESSOR, SPECTRUPHOTOMETERS, ORAL SURGERY CHAIR, THERMAL BALANGE VIVARIUM, X-RAY
EQUIPMENT, SOUND METERS, INCUBATORS, CENTRIFUGES, FRACTIONATORS, FIELD DENTAL

INSTALLATION: ENVIRONMENTAL PREDICTION RESEARCH FACILITY MONTEREY, CA.

CO. CAPT. W.G. SCHRAMM

UIR-UF RSCH. DR. A. WEINSTEIN

	PROGRAM	DATA B	3 Y	FISCAL	YEAR	(MILLIUN	\$)
PRUGRAM		ì	. 47	9		1980	
		(ACTL	JAL)	(ACT +	EST)	
TOTAL ROTEE		3.	. 15	1		3.729	
TUTAL PROCUREMENT		0.	.00	0		0.000	
TOTAL ULM		Q.	oo.	0		0.000	
TUTAL OTHER		٥.	26	1		0.284	
TOTAL ANNUAL LAB		3.	41	2		4.013	
TOTAL INHUUSE		1.	.56	7		1.813	
TOTAL INHOUSE ROTEE		1.	30	6		1.529	
ANNUAL OPERATING COST		0.	.53	1		0-584	

	PERSUNNEL JATA	(END OF FY	(1979)	
PERSONNEL	AUTHURIZED	TUTAL	TUTAL	NON-
	STRENGTH	PHDS	PRIJE	PROF
MILITARY	14	1	5	9
CIVILIAN	33	7	23	10
TOTAL	47	8	28	19

		SPACE AN) PROPERTY			
ACRES	SPACE (THÚ	USANDS OF	SWUARE FEE	T)	CUST (MILL	ION \$)
	LAB	AUMIN	UTHER	TOTAL	REAL PROP	Equip
0	1.362	4.858	10.594	16.814	0.00	0.883

...MISSIUN

CONDUCT RESEARCH AND DEVELOPMENT DIRECTED TOWARD PROVIDING OBJECTIVE LUCAL, REGIONAL AND GLOBAL ENVIRONMENTAL ANALYSIS AND PREDICTION TECHNIQUES. PROVIDE PLANNING, MUDELING AND EVALUATION SERVICES TO DETERMINE THE EFFECT OF ENVIRONMENTAL ELEMENTS ON NAVAL WEAPON SYSTEMS

... CURRENT IMPURTANT PRUGRAMS

DEVELUP TECHNIQUES FUR PROCESS/DISPLAY OF ENVIRONMENTAL SATELLITE DATA DEVELUP COMPUTER MUDELS TO ANALYZE/ASSIMILATE ATMOSPHERIC DATA DEVELUP TECHNIQUES TO PREDICT/DIAGNOSE ATMOS EFFECTS ON WEAPON SYSTEMS DEVELUP OBJECTIVE LOCAL/REGIONAL ATMOS ANALYSIS/PREDICTION TECHNIQUES DEVELOP SYNOPTIC, SUBSYNOPTIC AND MESDSCALE ATMOS PREDICTION MODELS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
DATACRAFT/5 COMPUTER
TWO NOVA 2 COMPUTERS
ACCESS TO CDC CYBER 175 COMPUTER
ACCESS TO 3 CDC 6500 COMPUTERS
CAPABILITY OF BUILDING, ANALYZING AND MODIFYING GLOBAL, REGIONAL AND LOCAL WEATHER MODELS
CAPABILITY OF RECEIVING ENHANCING AND ANALYZING REMOTELY SENSED ATMOS DATA

INSTALLATION: EXPLOSIVE ORDNANCE DISPUSAL FACILITY

INDIAN HEAD, MD.

CO. CDR. J.T. KENNEDY

TFCH.DIR. MR. L.A. DICKENSUN

	PRUGRAM MATA BY FISCA	L YEAR (MILLION \$)
PROGRAM	1979	1980
	(ACTUAL)	(ACT + EST)
TUTAL ROTEE	3.64 8	6.865
TOTAL PROGUREMENT	0.635	1.300
M3U JATOT	3.910	1.273
TUTAL OTHER	0.980	1.000
TOTAL ANNUAL LAB	9.173	10.438
TOTAL INHOUSE	5.406	5.656
TOTAL INHOUSE ROTEE	1.677	3.978
ANNUAL UPERATING COST	3.507	1.922

	PERSONNEL DATA	LEND OF FY	(1979)	
PERSONNEL	AUTHURIZED	TUTAL	TOTAL	NON-
	STRENGTH	PHDS	PROF	PROF
MILITARY	36	Q	10	26
CIVILIAN	165	1	41	124
TUTAL	201	1	51	150

		SPACE AN	U PRUPERTY			
ACRES	SPACE (THO	DUSANUS OF	SQUARE FEI	ET)	COST (MILL	ION \$)
	LAB	ADMIN	UTHER	TUTAL	REAL PROP	EQUIP
1087	34.681	16.936	53.249	104.866	4.24	1.004

...MISSION
CONDUCT RESEARCH, DEVELOPMENT, TEST AND EVALUATION CONCERNING BOTH THE DISPOSAL AND RENDERING-SAFE PROCEDURES FOR CONVENTIONAL AND SPECIAL WEAPONS, GUIDED MISSILES, UNDERWATER WEAPONS, EXPLOSIVES, BIO AND CHEM. MUNITIONS, BOTH U.S. AND FUREIGN, PLUS THE REQUIRED TOOLS AND EQUIPMENT.

...CURRENT IMPURTANT PROGRAMS
RANGE CLEARANCE AND DISPOSAL TECHNIQUES
TERRORIST DEVICES COUNTERMEASURES
REMOTE EXPLUSIVE CASE ENTRY SYSTEMS
IMPROVISE NUCLEAR DEVICE COUNTERMEASURES
EUD DIVER BREATHING SYSTEM

...FUNCTIONS/EQUIPMENT/CAPABILITIES
DEVELOP EXPLOSIVE DRONANCE DISPOSAL -EUD- PROCEDURE, PREPARE AND PUBLISH
EDD PUBLICATIONS FOR JOINT-SERVICE USE, CONDUCT EXP. AND ADV. DEVELOPMENT LEADING TO SPECIALIZED TOOLS AND EQUIP. NEEDFD TO LOCATE, IDENTIFY,
RECOVER, RENDER-SAFE AND DISPOSE OF ALL TYPES OF EXPLOSIVE ORDNANCE.
PREPARE AND MAINTAIN DOCUMENTATION FOR EDD TOOLS AND EQUIP. CONDUCT
FIRST ARTICLE INSPECTION ON EDD TOOLS BEING PROCURED FOR ALL SERVICES.
CONDUCT IN-SEARCH ENGINEERING FUNCTIONS FOR EDD AND SWIMMER WEAPONS
SYSTEM TOOLS. CONDUCT INITIAL EVALUATION OF FOREIGN EXPLOSIVE ORDNANCE.
MAINTAIN, STOCK AND ISSUE EDD PUBLICATIONS FOR JOINT-SERVICE USE.
CAPABILITY OF TESTING EDD TOOLS TO A DEPTH OF 400 FT IN A DIVING CHAMBER

CO. CAPT. RYCHARD H. RAHE

	PROGRAM D	ATA BY FISCAL	YEAR (MILLION	\$)
PRUGRAM		1979	1980	
		(ACTUAL) (ACT + EST)	
TUTAL ROTEE		2.371	2.365	
TOTAL PROCURE	MENT	0.000	0.000	
TOTAL UEM		0.000	0.000	
TOTAL UTHER		0.556	0.575	
TOTAL ANNUAL	LAB	2.927	2.940	
TOTAL INHOUSE		2.927	2.940	
TUTAL INHOUSE	RUTGE	2.371	2.365	
ANNUAL OPERAT	ING COST	0.486	0.670	
	PERSONNEL DATA	(END OF FY 1	979)	
PERSONNEL	AUTHORIZED	TOTAL	TOTAL	NON-
	STRENGTH	PHDS	PROF	PROF
MILITARY	33	7	16	17
CIVILIAN	80	10	38	42
TOTAL	113	17	54	59
	SPACE	AND PROPERTY		
ACRES	SPACE (THOUSANDS	UF SQUARE FEET) COST	(MILLION - \$)
	LAB ADMIN			PRUP EQUIP

...MISSION

2

CONDUCT RSCH AND DEVELOPMENT ON MEDICAL AND PSYCHOLOGICAL ASPECTS OF HEALTH AND PERFORMING OF NAVAL SERVICE PERSONNEL AND TO PERFORM SUCH OTHER FUNCTIONS OR TASKS AS MAY BE DIRECTED BY CHIEF BUMCD

0.000

15.677

2.00

0.613

4.500

...CURRENT IMPURTANT PROGRAMS
MORBIDITY FORECASTING
PSYCHOLOGICAL DEFENSES, COPING IN THE NAVAL RECRUIT
STUDY OF SLEEP PATTERNS/STRESS
MEDICAL/PSYCHOLOGICAL RESPONSES TO PROLONGED STRESS
RAPID DIAGNOSIS USING ANTIGEN—ANTIBODY REACTIONS

***FUNCTIONS/EQUIPMENT/CAPABILITIES
ELECTRUENCEPH MUNITORING OF SLEEP PATTERNS
CARDIOVASCULAR STRESS TESTING LAB
MUSCLE STRENGTH TESTING LAB
RADIOIMMUND — ASSAY CAPABILITY
SERUM AUTO-ANALYSIS
MICROSIGLOGY DIAGNOSTIC KITS
COMPUTER STORAGE-TOTAL USN/JSMC HEALTH DATA
COMPLETE HEALTH DATA FOR ENLISTED WOMEN
STUDIES OF SUBMERSIBLES
SIUCHEMICAL CURRELATES OF STRESS

11.177

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CO. CAPT. WALTER F. MINER

	PROGRAM DATA	BY FISCAL	YEAR (MILLION	\$)
PROGRAM		1979	1480	
	IAC	TUAL	(ACT + EST)	
TOTAL ROTGE	1	1.269	11.973	
TOTAL PROCUREMENT		0.000	0.000	
TOTAL DAM		0.000	0.000	
TOTAL OTHER		3.116	3.334	
TOTAL ANNUAL LAS	1	4.385	15.307	
TOTAL INHOUSE	1	.3.193	14,051	
TUTAL INHOUSE ROTER	1	.0.077	11.617	
ANNUAL UPERATING CUST		4.300	5.423	

	PERSUNNEL DATA	(END UF F'	Y 1979)	
PERSUNNEL	AUTHOR1ZED	TOTAL	TOTAL	NUN-
	STRENGTH	PHD\$	PROF	PROF
MILITARY	249	69	88	161
CIVILIAN	240	41	95	145
TUTAL	489	110	183	306

		SPACE AN	U PROPERTY			
AURES	SPACE (THO	USANDS OF	SHUARE FEE	FT)	COST IMILL	(2 NO1
	LAB	ADMIN	UTHER	TOTAL	REAL PROF	EQUIP
4	145.868	9.400	40.299	195.567	4.00	9.033

C..MISSION CUNDUCT BASIC & APPLYED RESEARCH & DEVELOPMENT CONCERNED WITH THE HEALTH, SAFETY, & EFFICIENCY OF NAVY PERSONNEL

... CURRENT IMPORTANT PROGRAMS

TISSUE TYPING ORGAN TRANSPLANTS & IMMUNOSUPPRESSION IN RESTORATIVE SURG BASIC & APPLIED MICROBIOLOGY & VACCINE DEV TO CONTROL MALARIA & SCHISTO BASIC MECHANISM OF BACTERIAL & TRAUMATIC SHOCK HEAT STRESS & TOXIC MAT PSYCHOLOGICAL AND PHYSIOLOGICAL EFFECTS OF HYPERBARIC ENVIRONMENT MECHANISMS OF ORAL PLACQUE DISEASE & TREATMENT OF ORAL DISEASE & TRAUMA

...FUNCTIONS/EQUIPMENT/CAPAB/LITTES
ENVIRONMENTAL HEALTH EFFECT LAB INCLUDE MAN-RATED HYPERBARIC CHAMBERS
HUMAN PHYSIOLOGICAL & HEAF STRESS EQUIPMENT & FACILITIES
HUMAN TISSUE PRESERVATION & STURAGE EQUIPMENT & FACILITIES
BIOHAZARDOUS MATERIALS HANDLING LAB EQUIPMENT & FACILITIES
TOXICULOGY EVALUATION EQUIP & FACILITIES INCLUDE HYPERBARIC CHAMBERS
FRANSMISSION & SCANNING ELECTRON MICKUSCUPES FLUORESCENT ANTIBODY CELL
SURTER & COMPUTER
EXPERIMENTAL ANIMAL HALILIVIES ANIMAL HOUSE & OPERATING ROOMS
LAB EQUIPMENT & FACILITIES FOR BASIC & APPLIED BIOCHEMICAL,
MICRUBIULUGICAL, & PSYCHOLOGICAL STUDIES.

CU. COR. WILLIAM H. SCHRUEDER SCI.DIR. DR. JOHN CROSS

	PRU	GRAM DATA		L YEAR (MI		
PRUGRAM			1979	19	80	
		(.40	CTUAL)	(ACT + ES	T }	
TUTAL ROTEE			2.057	0.7	93	
TOTAL PROCUREME	NY		0.000	0.0	00	
TOTAL DEM			0.000	0.0	00	
TUTAL OTHER			0.568	0.3	12	
TOTAL ANNUAL LA	18		2.625	1.1		
is, it is in the second	,,,		20025			
TOTAL INHOUSE			2.496	1.1	05	
TUTAL INHOUSE R	ROTEE		2.057	0.7	93	
ANNUAL UPERATIO	IG COST		1.020	0.3	65	
	PERSONNE	L DATA	IEND OF FY	1979)		
PERSONNEL	AUTHURIZED		TUTAL	TOTA	L	NON-
	STRENGTH		PHDS	PRO	F	PROF
MILITARY	31		6		9	22
CIVILIAN	54		3		4	50
TOTAL	85		9	1	3	72
		SPACE AN	U PROPERTY			
ACRES	SPACE (THOU	SANUS OF	SQUARE FE	ET)	COST IMIL	LION \$)
	LAB	ADMIN	DTHER	TOTAL	REAL PROP	EQUIP
o	10.370	3.500	0.600	14.470	0.00	0.807

...MISSION

TO CONDUCT RESEARCH AND DEVELOPMENT ON INFECTIOUS DISEASES OF MILITARY IMPORTANCE THAT ARE ENDEMIC OR EPIDEMIC IN ITS ASSIGNED GEOGRAPHICAL AREA.

...CURRENT IMPORTANT PROGRAMS
CUNDUCTS RESEARCH AND DEVELOPMENT IN THE BIOMEDICAL SCIENCES.
PROVIDES DATA ON DISTRIBUTION AND PREVALENCE OF INFECTIOUS DISEASES IN WESTERN ASIA, ESP. PHILIPPINES AND INCONESIA. EXPERIMENTAL AND IMMUNDLOGICAL STUDIES ON SCHISTOSOMIASIS AND FILARIASIS AND ON ETIOLOGY OF DIARRAEAL DISEASES AND INFLUENZA SURVEILLANCE.

...FUNCTIONS/EQUIPMENT/CAPABILITIES
STUDIES ON THE DIAGNOSTS, DISTRIBUTION, AND PREVALENCE OF TROPICAL DISEASE
EPIDEMIDLOGIC STUDIES ON INFECTIOUS DISEASES IN ASIA. A DEQUAIR LABORATORY
FACILITIES FOR STUDIES ON VIRAL, BACTERIAL, PARASITIC, AND ARTHROPOD—BORNE
DISEASES. CLINICAL, BIOCHEMICAL AND PATHOLOGY LABORATORIES, RADIOISOTOPE
EQUIPMENT, COMPUTER CAPABILITY. FULLY UPERATIONAL PERMAMENT DETACHMENT
IN JAKARTA, INDONESIA, WITH A DECUATE CAPABILITIES TO CONDUCT ALL ASPECTS
OF BIOMEDICAL RESEARCH. FIELD COLLECTING FACTLITY IN TAGODIN, ILUCOS SUR, &
LUZUN, PHILIPPINES. LABORATORY ANIMAL CARE FACILITIES IN INDONESIA.

CO. CAPT. RAYMOND H. WATTEN

•	PRUGRAM DATA BY FISCA	L YEAR (MILLION	\$)
PRUGRAM	1979	1980	
	(ACTUAL)	(ACT + EST)	
TUTAL RDT&E	1.913	1.726	
TUTAL PROCUREMENT	0.000	0.000	
TOTAL UEM	0.000	0.000	
TUTAL UTHER	0.593	0.575	
TOTAL ANNUAL LAB	2,506	2.301	
TOTAL INHOUSE	1,203	1.259	
TUTAL INHUUSE RDT&E	0.610	0.684	
ANNUAL OPERATING COST	0.000	0.000	
PERSO	NNEL DATA (END OF FY	1979)	
PERSONNEL AUTHURIZE	ED TOTAL	TOTAL	NON-
STRENG"	TH PHDS	PROF	PROF
MILITARY	27 8	10	17
CIVILIAN	54 12	54	0
TUTAL	91 18	64	17

ACRES	SPACE (THU		D PROPERTY SQUARE FE		COST (MILL	(2 NU1
5	LAB	AUMIN	OTHER	TUTAL	REAL PRUP	EQUIP
	41-768	8 - 962	55.350	105.380	1.44	0.736

...MISSIUN

TO CONDUCT RESEARCH AND D. 'ELOPMENT IN INFECTIOUS DISEASES OF MILITARY IMPORTANCE TO ITS ASSIGNED CIDGRAPHICAL AREA, AND, TO PERFORM SUCH OTHER FUNCTIONS AS MAY BE DIRECTED DITTE CHIEF BUREAU OF MEDICINE & SURGERY

...CURRENT IMPORTANT PROGRAMS
MENINGITIS STUDY
PATHOPHYSIULUGY AND TREATMENT OF SCHISTOSOMIASIS
ARTHRUPUD VIRUS ISOLATIONS IN TICKS, MUSQUITOFS, AND SANDFLIES
IMMUNULOGY OF HOMAN SCHISTOSOMIASIS
VIRAL, ECOLOGICAL, CLINICAL AND EPIDEMIBLOGY OF RIFT VALLEY FEVER

...FUNCTIONS/EQUIPMENT/CAPABILITIES

MUDEL LS2, VERTICAL ILLUMINATUR UUTFIT, DILFIREDPORTABLE HOT HIGH PRESSURE CLEANER, ROTARY MICROTUME, AUTOMATED MICROTUME KNIFE SHARPENER, FREEZING CHAMBER, BIOGARD HUOD, ABSORBANCE MUNITUR WITH STAND & FLOW CELL, INCUBATOR ULTRA CENTRIFUGE, NIKUN INVERTED MICROSCOPE, AUTOMATIC SLIDE STAINER, HABMA CONVT PLATELET COUNTING SYSTEM, MICROTUME AU, COULTER COUNTER, REVCO FREEZERS, CENTRIFUGES, PATIENTS WARD TO HUSPITALIZE SICK EGYPTIANS, PUBLIC WORKS FACILITY, TECHNICUM TISSUE PROCESSOR, PICKER X-RAY APPARATUS, CLIMATIZER, WORLD SMOST COMPLETE TICK COLLECTION, EXTENSIVE MEDICAL LIBRARY, ANIMAL FACILITY.

EL CENTRO, CA.

INSTALLATION: NATIONAL PARACHUTE TEST RANGE

CU. CAPT. E. D. LIGHTER

TECH. DIR. MR. H. C. FISH

PROGRAM	PRUGRAM DATA BY FISCAL 1979	YEAR (MILLION 5)*
PRUGRAIT	(ACTUAL)	(ACT + EST)
TOTAL RUTSE	10.017	0.000
TOTAL PROCUREMENT	1.874	0.000
TUTAL DEM	1.035	0.000
TOTAL OTHER	3.041	0.000
TOTAL ANNUAL LAB	15.967	0.000
TOTAL INHOUSE	11.886	0.000
TUTAL INHOUSE ROTGE	8.551	0.000
ANNUAL OPERATING COST	4 - 055	0.000

	PERSONNEL DATA	LENU OF F	Y 1979)	_
PERSONNEL	AUTHORIZED	TOTAL	TUTAL	NON-
L CITABILITE	STRENGTH	PHDS	PROF	PROF
MILITARY	202	0	12	190
CIVILIAN	261	0	19	242
TUTAL	463	0	31	432

		SPACE A	NU PROPERTY	f		
ACRES	SPACE (THU	JUSANUS O	F SQUARE FE	EET)	COST (MILL	(\$ NOI.
A01123	LAB		UTHEK		REAL PROP	EQUIP
484608	6.400	56.670	1142.407	1205.477	33.06	20.629

...MISSIUM CONDUCT RDT&E AND FULLOW-ON ENGINEERING OF AERODYNAMIC DECELERATORS. ASSOCIATED SYSTEMS, ASSEMBLIES AND EQUIPMENT, AND TO PROVIDE COMMON KANGE, TECHNICAL AND BASE SUPPORT FOR UNITS OF OPERATING FORCES OF THE NAVY AND OTHER DOD APPROVED USERS.

...CURRENT IMPORTANT PROGRAMS
SEA-WATER ACTUATED RELEASE SYSTEM
TAV-8A ESCAPE SYSTEM
SJU-3A EJECTION SEAT
MARTIN BAKER ESCAPE SYSTEM FOR F-18
EXPLORATORY DEV.-PARACHUTE REPACK STUDY, AEROCONICAL VACUUM PACK PROHT.

ORUP TEST RANGE LAND AND SALT WATER. SPACE POSITIONING PHOTO CCTV TELEMETRY INSTRUMENTATION-ADP FOR RANGE DATA-PARAMETERS SEA LEVEL TO BOKFT ENGINEERING SERVICES-EXPLORATORY DEVELOPEMENT ADVANCED AND BASIC DESIGN IN SERVICE ENGINEERING MATERIALS TESTING LAB PHYSIOLOGICAL EVAL. EQUIPMENT-PHOTO LAB STILL AND MUTION-16MM TO 70MM AND COLOR 5000 FPS. AIRCRAFT-TRANSPORT DELIVERY LOW TO HIGH SPEED-VEHICLE DELIVERY-AIR TO AIR PHOTO COVERAGE-EJECTION SEAT TEST BED-PERSONNEL DELIVERY. INDUSTRIAL SHUPS-MACHINE SHUP-MODEL MAKING-VEHICLE AND PROTOTYPE PARACHUTE AND HARDWARE FABRICATION-CARPENTRY-HOODWORKING PAINTING METAL FABRICATION FOR WELD, HEAT TREAT AND MAGNAFLUX

ACTIVITY DISESTABLISHED. ZERO FUNDS SHUWN FOR 1980

CU. CAPT.C.G.DARRELL

TECH-DIR-DR-R-R-GOODMAN

	PR	UGRAI DAT	A BY FISCA	L YEAR (MI	LION \$)	
PRUGRAM			1979	198	30	
		(A	CTUAL	(ACT + FS'	Γ)	
TOTAL ROTSE			29.891	32.19		
TOTAL PROCURE	MENT		0.000	0.00		
TOTAL USM			0.425	0.4	58	
TOTAL OTHER			2.108	2.20	54	
TOTAL ANNUAL	LAB		32.424	34.8	74	
TUTAL INHOUSE			14.914	16.0	38	
TOTAL INHUUSE	ROTEE		13.618	14.6	47	
ANNUAL UPERAT	ING CUST		3.786	4.5	39	
	PERSUNN	EL DATA	(END OF FY	1979)		
PERSUNNEL	AUTHUR1ZED	1	TOTAL	TOTAL	L	NUN-
	STRENGTH	1	PHDS	PROI	F	PROF
MILITARY	10		3	10	Ç	0
CIVILIAN	261		47	21	5	45
TUTAL	271		50	22	5	45
		SPACE AN	D PROPERTY			
ACRES	SPACE (THU	USANDS UF	SQUARE FE	ET)	COST (MILI	_ION \$)
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
5	63.976	18.990	25.794	108.760	9.00	5.000

...mission To carry out a broad based rutge program in ocean science and technology with emphasis on understanding ocean processes thro measurement and anal ysis, and the effects of this ocean environment on navy systems and opera tions

...CURRENT IMPORTANT PROGRAMS
ACCUSTIC BUT INTERACTION PROG IN SUPPORT OF JEEP UCEAN SURV SYS DEV.AND
OPER.UEV OCEAN PRED MODELS TO ACQUIRE, ANAL, INTERPRET OCEAN ENV DATA FROM
REMOTE SENS SYS.RES EFFORTS IN ARCTIC REGION TO QUANTIFY AND DESCRIBE
EFFECTS OF POLAR ENV ON NAVY OPER SYS.MANAGE ENV ACOUSTICS SUP PROG.TACT
ASW ENV ACOUSTICS SUP PROG.OCEAN MEAS PROG.MARINE EARTHQUAKE MONITOR SYS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
WAVE-CURRENT INTERACTION SIMULATION FACILITY. INTERACTIVE DIGITAL SATELLITE IMAGE PROCESSING SYSTEM TO HANDLE DATA FROM ALL IMAGING, SATELLITES,
DEEP OCEAN SEDIMENT CORE AND DREDGE SAMPLE DEPOSITORY-1728 SQ FT. VERA
IS A MULTI-PURPOSE HYDROPHONE, PRESSURE SENSOR KEVLAR ARRAY WHICH CAN BE
DEPLOYED IN VARIOUS MODES FOR EXPERIMENTAL MEASUREMENTS. X-RAY FLOURESCENCE, TRANSMISSION AND SCANNING, ELECTRON MICROSCOPE FACILITY.

SAN DIEGO, CA.

COR. CAPT. S. L. GUILLE

TECH. DIR. DR. H. L. BLOOD

	PROGRAM DA	TA BY FISC	AL YEAR (MILLION S	5)
PROGRAM		1979	1980	
	(ACTUAL)	(ACT + EST)	
TOTAL ROTEE		159.562	175.410	
TOTAL PROCURE	EMENT	37.065	23.094	
TOTAL USM		34,843	38.467	
TUTAL UTHER		10.217	8.021	
TOTAL ANNUAL	LAB	241.697	244.992	
TOTAL INHOUSE	•	119.125	147.436	
TOTAL INHOUSE		85.889	106.661	
ANNUAL OPERAT		38.353	43.825	
	PERSONNEL DATA	(END OF F	v 1070)	
PERSONNEL	AUTHURIZED	TUTAL	TOTAL	NON-
FERSONIEL	STRENGTH	PHDS	PROF	PROF
MT. TTADV	321	0	127	194
MILITARY	· -		·	
CIVILIAN	2 470	165	1236	1184
TUTAL	2791	165	1413	1378

		SPACE AND	U PRUPERTY	1		
ACRES	SPACE (TH	DUSANDS OF	SQUARE FE	ET)	COST (MILI	LION \$)
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
3847	1162.394	205.889	163.233	1531.516	39.50	130.640

...MISSION

TO BE THE PRINCIPAL NAVY RESEARCH, DEVELOPMENT, TEST AND EVALUATION CENTER FOR COMMAND CONTRUL, COMMUNICATIONS, OCEAN SURVEILLANCE, SURFACE AND AIR LAUNCHED UNDERSEA WEAPON SYS, AND SUPPORTING TECHNOLOGIES.

... CURRENT IMPORTANT PROGRAMS

OCEAN SURVEILLANCE SYS WITH SUSUS UPDATE AND MULTI-SENSOR INTEGRATION COMMAND CONTROL AND COMMUNICATIONS SYS ARCHITECTURE AND ENGINEERING ADVANCED SURFACE AND AIR LAUNCHED UNDERSEA WEAPON AND FIRE CONTROL SYS TECHNOLOGY DEVELOPMENTS SUCH AS ADV MARINE BID SYS, EXTERNAL STOWAGE AND LAUNCH, ARCTIC SUB OPS, OCEAN ENGINEERING AND ELECTRONIC WARFARE

...FUNCTIONS/EQUIPMENT/CAPABILITIES

FACILITIES AT SAN DIEGO OR HAWAII LABS INCLUDE ARCTIC RESEARCH

FACILITY; HICROWAVE AND MILLIMETER WAVE ANTENNA PATTERN RANGE COMPLEX;

OCEANOGRAPHIC RESEARCH TOWER; STABLE SEMI-SUBMERGED PLATFORM; UNMANNED

UNDERWATER TETHERED VEHICLES INCLUDING CURV III, SCAT, RUWS, AND SNUOPY;

USS DOLPHIN, EXPERIMENTAL SUB; TRANSDUCER EVALUATION CENTER;

ELECTRONICS DEVELOPMENT AND TEST LAB; MICROFLECTRONICS LAB COMPLEX,

ACOUSTIC SIGNAL DATA ANALYSIS AND CUNVERS SYSTEM; SIMULATION AND

REAL-TIME CUMPUTER FACILITY FOR DEVELOPMENT OF ASW SYSTEMS; SHIP MOTION

SIMULATOR; AND A BIO-SCIENCE FACILITY ENGAGED IN RESEARCH, TRAINING,

AND HARDLING OF MARINE MAMMALS. OFF-STATION FACILITIES INCLUDE A VERY

LOW FREQUENCY SOUNDER SITE IN ARIZONA

INSTALLATION: OFFICE OF NAVAL RESEARCH

CO. RAUM A.J. BACIOCCO UR. TECH DIR DR. JEROME A. SMITH

	PRUGRAM	DATA BY FISCAL	L YEAR (MILLION	5)
PRUGRAM		1979	1980	
		(ACTUAL)	(ACT + EST)	
TUTAL ROTEE		264.738	295.243	
TUTAL PROCUREM	ENT	4.449	4.500	
TOTAL DEM		121.465	105.855	
TOTAL OTHER		5.857	5.466	
TOTAL ANNUAL L	ÅB	396.509	411.064	
TOTAL INHOUSE		15.192	16.242	
TOTAL INHOUSE	RUTLE	14.095	15.070	
ANNUAL UPERATI	NG CUST	10.080	10.772	
	PERSONNEL UA	A (END OF FY	1979)	
PERSONNEL	AUTHORIZED	TOTAL	TOTAL	NON-
	STKENGTH	PHDS	PROF	PROF
MILITARY	31	3	23	ಕ
CIVILIAN	398	55	92	306
TOTAL	429	58	115	314
	SPACI	E AND PROPERTY		
ACRES	SPACE (THUUSAND	S OF SQUARE FEL	ET) COST	(MILLION S)
	LAB ADM	IN OTHER	TOTAL REAL	PROP EQUIP
O	0.000 86.00	000.00	86.000	0.00

***MISSION
RESPONSIBLE FOR CEAUERSHIP OF NAVY RESEARCH PROGRAM, MANAGEMENT AND DIRECTION OF UNR CONDUCTED ROTGE AND OF THE NAVY-WIDE PATENT PROGRAM,
DEVELOPMENT OF NAVY-WIDE ROTGE FOR ASN(RES), WORLD WIDE RESEARCH INFO
AND CONTRACT MGMT OF FEDERALLY FUNDED UNIVERSITY RESEARCH.

...CURRENT IMPORTANT PROGRAMS
CONTRACT RESEARCH AND TECHNOLOGY PROGRAMS
NAVY PATENT PROGRAM
NAVY-WIDE ROTGEN APPROPRIATION AUMINISTRATION
FOCAL POINT FOR WORLD-WIDE RESEARCH INFORMATION
CONTRACT MANAGEMENT PROGRAM AT EDUCATIONAL INSTITUTIONS

***FUNCTIONS/EQUIPMENT/CAPABILITIES

ADMINISTRATION OF RESEARCH PROGRAMS IN PHYSICAL SCIENCES, MATHEMATICAL

AND INFORMATION SCIENCES, BIOLOGICAL SCIENCES, PSYCHOLOGICAL SCIENCES,

ARCTIC AND EARTH SCIENCES, MATERIAL SCIENCES, DCEAN SCIENCE AND TECHNOLOGY

ADMINISTRATION OF TECHNOLOGY PROGRAMS IN NAVAL VEHICLE AND WEAPONS

TECHNOLOGY, SENSOR AND CONTROL TECHNOLOGY, ANALYSIS AND SUPPORT, FIELD

ACTIVITIES INCLUDE NRL, NORDA, NBL, ANDNARL. MANAGES TECHNICAL ASPECTS OF

NAVY INDUSTRIAL INDEPENDENT RESEARCH AND DEVELOPMENT PROGRAM. MAINTAINS

RESEARCH RESERVE PROGRAM. COORDINATES NAVAL RESEARCH AND PROMOTES CO—

OPERATIVE RESEARCH EFFORTS WITHIN NAVY, OTHER DOD, NSF, NASA, DEPT OF ENERGY

AND OTHER GOVERNMENT RESEARCH GROUPS. SUPPORT AND ADMINISTRATION OF

NAVAL RESEARCH ADVISORY COMMITTEE.

INSTALLATION: ORDNANCE MISSILE TEST FACILITY

WHITE SANDS, N.M.

CO.CAPT.M.A. PETERSON, JR.

FAC. ENG. MR H.L. HENDON

	PROGRAM DATA BY FISCAR	L YEAR (MILLIGN \$)
PRUGRAM	1979	1980
	(ACTUAL)	(ACT + EST)
TOTAL ROTEE	4.966	5.172
TOTAL PROCUREMENT	0.218	0.000
MAR SATOT	0.001	0.000
TOTAL UTHER	1.456	1.751
TOTAL ANNUAL LAB	5.741	5.923
TOTAL INHOUSE	5.494	3.269
TUTAL INHOUSE RUTEE	2,225	1.913
ANNIAL UPERATING COST	0.940	0.807

	PERSUNNEL DATA	(END OF F	Y 19791	
PERSONNEL	AUTHORIZED	TUTAL	TOTAL	NON-
	STRENGTH	PHDS	PROF	PROF
MILITARY	86	1	33	53
CIVILIAN	54	0	6	48`
TOTAL	140	1	39	101

		SPACE AN	D PROPERTY			
ACRES	SPACE (THE	DUSANDS OF	SQUARE FF	ET)	COST (MILL	ION \$)
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
38	108.566	30.539	78.694	217.799	5.82	10.106

...MISSION

SUPPORT THE NAVY GUIDED MISSILE AND RESEARCH RUCKET PROGRAMS INCLUDING GROUND AND FLIGHT TESTING, ASSIST JUINT SERVICE LASER GUIDED WEAPONS COUNTERMEASURE TEST, PARTICIPATE IN THE OPERATION OF THE DOD INTEGRATED MISSILE TEST RANGE AT WHITE SANDS

...CURRENT IMPORTANT PROGRAMS
STANDARD MISSILE 1 AND 2/AEGIS FLIGHT TESTING
CRUISE MISSILE FLIGHT TESTING
RAM FLIGHT TESTING
VERTICAL LAUNCHER TESTING
UPPER ATMOSPHERE RESEARCH ROCKET LAUNCHING

...FUNCTIONS/EQUIPMENT/CAPABILITIES
FLIGHT TEST TERRIER/TARTAR/STANDARD/SAM GUIDED MISSILES AND PROJECTILES
LAUNCH AERUBEE 150, 170, 200, ARIES, ASTROBEE F, D, BLACK BRANT ORION
AND VARIOUS OTHER SUUNDING ROCKETS FOR UPPER ATMOSPHERIC STUDY
CONDUCT NAVY AIR WEAPONS TESTS
LAUNCH VARIOUS ROCKETS IN SUPPORT OF MASA PROJECTS
LAUNCH VARIOUS ROCKETS IN SUPPORT OF AIR FORCE PROJECTS
CONDUCT VARIOUS DEVELOPMENT TESTS FOR SSM AND SAM PROJECTS
PROVIDE DROME SUPPORT
ASSIST IN OPEVAL OF CRUISE MISSILE
MAINTAIN TARGET ECM EQUIPMENT
5-INCH GUIDED PROJECTILE LAUNCH CAPABILITY
PROVIDE WARHEAD AND EUD ANALYSIS ARENA

CU. RADM F.H. BAUGHMAN

TECH. DIR. MR. T.P. PEPRY

	PROGRAM L	DATA BY FISC	AL YEAR (MILLIUN	5)
PROGRAM		1979	1980	
		(ACTUAL)	(ACT → EST)	
TUTAL KOTEE		112.249	115.048	
TOTAL PRUCURE	MENT	71.550	67.904	
TOTAL DEM		49.892	52.607	
TUTAL UTHER		49.940	48.804	
TOTAL ANNUAL	LAB	283.631	284.363	
TOTAL INHOUSE		175.942	178.116	
TOTAL INHOUSE	ROTEE	78.574	80.534	
ANNUAL UPERAT	ING COST	20.307	20.569	
	PERSUNNEL DATA	A (END OF F	Y 1979)	
PERSUNNEL	AUTHORIZED	TOTAL	TOTAL	NON-
	STRENGTH	PHDS	PROF	PROF
MILITARY	1060	3	271	789
CIVILIAN	3743	9	992	2751
TUTAL	4803	12	1263	3540
	SPACE	ANU PROPERT	Υ	
ACRES	SPACE LIHOUSANUS	OF SOUARE F	EET) COST	(MILLION \$)

ACRES SPACE (THOUSANDS OF SQUARE FEET) COST (MILLION \$)

LAB ADMIN OTHER TOTAL REAL PROP EQUIP

27084 945.133 396.770 3490.632 4832.535 143.66 133.514

...MISSION
PERFORM DEVELOPMENT TEST AND EVALUATION, DEVELOPMENT SUPPORT, FOLLOW-ON
ENGINEERING AND LOGISTICS AND TRAINING SUPPORT FOR NAVAL WEAPONS, WEAPON
SYSTEMS AND RELATED DEVICES; AND PROVIDE MAJOR RANGE, TECHNICAL, AND
BASE SUPPORT FOR FLEET USERS AND OTHER DEFENSE AND GOVERNMENT AGENCIES.

...CURMENT IMPORTANT PROGRAMS
TOMAH, & CRUISE MISSILE
HARPOWN ANTI-SHIPPING MISSILE
PHOEN_X AIR-TO-AIR MISSILE
F-14 TACTICAL SUFTWARE
TRIDENT SUBMARINE-LAUNCHED BALLISTIC MISSILE

...FUNCTIONS/EQUIPMENT/CAPABILITIES
TEST LABORATORIES FUR WEAPON SYSTEMS SIMULATIONS, SYSTEM INTEGRATIONS,
ENVIRUNMENTAL, ANECHOIC, ELECTRONIC WARFARE COUNTERMEASURES, TACTICAL
SOFTWARE SUPPORT, AIR AND SURFACE TRACKING RANGE-45000 SQUARE MILES/
RADARS- FPS-16, FPQ-10, FPQ-12, MPS-75/ THEUDOLITES AND CINE SEXTANTS.
RECEIVE, RECORD AND DISPLAY P, L AND S BAND TELEMETRY, REAL TIME AND
POST OPERATIONAL DATA REDUCTION FACILITIES. MISSILE AND TARGET LAUNCH
PLATFORMS AND FACILITIES. COMMAND CONTROL AND FLIGHT TERMINATION
FACILITIES. SHIP MOTION SIMULATION. USNS WHEELING-TRACKING, TELEMETRY
COMMAND, CONTROL AND FLIGHT FERMINATION SHIP FOR BROAD OCEAN AREA
(PACTFIC) TESTS. MISSILE IMPACT LOCATION AND MISS-DISTANCE INDICATOR
LYSTEMS. ALL-UP ROUND MISSILE TEST FACILITY. UNDERWATER TRACKING RANGE1000 SQUARE MILES, 3-DIMENSIONAL 400-6000 FATHOMS.

INSTALLATION: PERSONNEL RESEARCH & DEVELOPMENT CENTER SAN DIEGO, CA.

CO. CAPT. D.F. PARKER

TECH. DIR. DR.J.J.REGAN

	PRUGRA	M DATA BY FISCAL	YEAR (MILLIUN	\$ }
PROGRAM		1979	1980	
		(ACTUAL)	(ACT + EST)	
TOTAL ROTEE		13.579	18.945	
TOTAL PROCURE	MENT	0.311	0.104	
TUTAL DEM		1.766	0.677	
TOTAL OTHER		1-456	0.718	
TUTAL ANNUAL	LAB	17.112	20.444	
TOTAL INHOUSE		8,961	10.716	
TUTAL INHOUSE		7.172	9.557	
ANNUAL UPERAT	ING COST	2.924	3.396	
	PERSONNEL U	ATA (END UF FY	1979)	
PERSONNEL	AUTHURIZED	TUTAL	TOTAL	NON-
	STRENGTH	PHOS	PROF	PROF
MILITARY	27	ı	9	18
CIVILIAN	267	79	171	. 96
TUTAL	294	80	180	114
	SPA	CE AND PROPERTY		
ACRES		IDS OF SQUARE FEE	T! COST	(MILLION \$)
	LAB AC	MIN UTHER	TUTAL REAL	PRUP EQUIP

...MISSION
PRINCIPLE NAVY ACTIVITY FUR CONDUCTING HUMAN RESOURCES RDTE IN THE AREAS
OF MANPOWER PERSONNEL EDUCATION AND TRAINING AND TO SERVE AS THE COORD
ACTIVITY FOR ALL SUCH ROTE FOR THE NAVY. PROVIDE SUPPORT TO CHM
ACTIVITIES TO AUGMENT HUMAN FACTORS EFFORTS IN DEVELOPMENT OF NEW SYSTEM

0.000

70.660

2.350

0.48

...CURRENT IMPORTANT PROGRAMS
PERSONNEL ACQUISITION UTILIZATION AND EFFECTIVENESS
HUMAN PERFORMANCE IN NAVY SYSTEMS
PERSONNEL EDUCATION AND TRAINING
PERSONNEL MANPUWER MANAGEMENT
MANAGEMENT SYSTEMS

63.580

7.080

...FUNCTIONS/EQUIPMENT/CAPABILITIES
GENERAL AUTOMATION 18/30 COMPUTER SYSTEM WITH REMOTE JUB ENTRY TO OTHER
CUMPUTER CENTERS PDP 12 LABURATURY INSTRUMENT CONTROL SYSTEM PDP 11/47
AUTOMATED TESTING AND TRAINING SYSTEM TEKTRONIC GRAPHIC TERMINALS
INTERFACING WITH NAVAL OCEAN SYSTEMS CENTER UNIVAC 1100 MAXICOMPUTER

CU. CATT. E. E. HENIFIN

DIR. OF RSCHU DR. ALAN BERMAN

	PROGRAM DATA BY FISCAL	
?KOGRAM	1979	1980
	(ACTUAL)	(ACT + EST)
TOTAL ROTEL	188.575	194.462
TOTAL PROCUREMENT	6.339	5.908
TOTAL UEM	11.067	10.737
TOTAL UTHER	14.837	15.384
TOTAL ANNUAL LAB	220.818	276.491
TOTAL INHOUSE	181.726	186.748
TOTAL INHOUSE ROTKE	149.483	154.719
ANNUAL OPERATING COST	51.318	56.252

	PE ISONNEL DATA	(END OF FY	Y 1979)	
PERSONNEL	AUTHURIZED	TOTAL	TOTAL	NÜN-
	STRENGTH	PHOS	PRUF	PROF
MILITARY	143	O	27	116
CIVILIAN	3251	598	1539	1712
TOTAL	3394	596	1566	1828

		SPACE AN	D PROPERTY	1		
AURES	SPACE (TH	UUSANDS OF	SQUARE FE	EFT)	CUST (MIL	LION \$)
	LAB	ADMIN	OTHER	TCTAL	REAL PRUP	EQUIP
798	2312.917	192.677	479.359	2984.953	91.86	100.225

...MISSION

TO CUNDUCT A BROADLY BASED MULTIDISCIPLINARY PROGRAM OF SCIENTIFIC RESEARCH AND ADVANCED TECHNOLOGICAL DEVELOPMENT DIRECTED TOWARD NEW AND IMPROVED MATERIALS, EQUIPMENT, TECHNIQUES, SYSTEMS, AND RELATED UPERATIONAL PROCEDURES FOR THE WAVY

...CURRENT IMPURTANT PRUGRAMS
NATU SEAGNAT
EFFECTIVENESS OF NAVAL ELECTRUNICS WARFARE SYSTEMS
ADVANCED ACCOUNTIC ANTI-SUBMARINE WARFARE SURVEILLANCE PROGRAM
SATELLITE PROGRAMS
ADVANCED HIGH PERFORMANCE MATERIALS

...FUNCTIONS/EQUIPMENT/CAPABILITIES

PRINCIPAL RESEARCH AND DEVELOPMENT LABORATORY OF THE NAVY. PRIMARY AREAS ARE MATERIALS SCIENCE AND TECHNOLOGY, SPACE SCIENCE AND TECHNOLOGY, RADAR, ELECTRONIC WARFARE, LASER TECHNOLOGY, OPTICS, OPTICAL WARFARE; ELECTRONIC DEVICES, PLASMA AND NUCLEAR PHYSICS, INTELLIGENCE SUPPORT, UNDERSEA SURVEILLANCE, ENVIRONMENTAL SCIENCE AND TECHNOLOGY. MAJOR FACILITIES INCLUDE UNE SHIP FOR ACQUSTIC ASW RESEARCH, ACQUSTIC BATHYMETRY, AND DEEP OCEAN SEARCH. MAJOR ACQUSTIC STANDARD AND CALIBRATION FACILITIES. HIGH LEVEL KADIATION LABORATORY. THREE NUCLEAR PARTICLE ACCELERATORS. DIVERSE HIGH ENERGY LASERS. 200 KILOGAUSS HIGH FIELD MAGNET FACILITY. SPACE SIMULATION FACILITIES. MAJOR PLASMA PHYSICS FACILITIES. ELECTRONIC WARFARE CENTRAL TARGET SIMULATOR.

CO. CDR. R.A. MARGULIES

	PRUGRAM DA	TA BY FISCAL	. YEAR (MILLIUN	\$1
PROGRAM		1979	1980	
	(ACTUAL)	(ACT + EST)	
TUTAL ROTEE		1.960	2.023	
TUTAL PROCURE	MENT	0.000	0.000	
TOTAL DEM		0.076	0.000	
TOTAL UTHER		0.451	0.475	
TOTAL ANNUAL	LAB	2.487	2.498	
TOTAL INHOUSE	<u> </u>	2.487	2.498	
TUTAL INHOUSE	ROYEE	1.460	2.023	
ANNUAL OPERAT	FING CUST	0.592	0.658	
	PERSONNEL DATA	(END OF FY	1974)	
PERSONNEL	AUTHURIZEO	TOTAL	TOTAL	NON-
	STRENGTH	PHUS	PRUF	PROF
MILITARY	30	10	14	16
CIVILIAN	62	12	33	29
TOTAL	92	22	47	45
	SPACE A	IND PROPERTY		
ACRES	SPACE (THOUSANDS O	F SQUARE FE	ET) COST	(MILLION \$)

ACRES SPACE (THOUSANDS OF SQUARE FEET) COST (MILLION \$)

LAB ADMIN OTHER TOTAL REAL PROP EQUIP

1 40.514 14.099 0.000 54.613 1.10 1.806

...MISSION

TO CONDUCT MEDICAL RESEARCH AND DEVELOPMENT AS IT RELATES TO SUBMARINE, SHIPBOARD, AND DIVING ENVIRONMENTS.

...CURRENT IMPORTANT PROGRAMS
COMPUTER ASSISTED DIAGNOSIS PROGRAMS FOR CURPSMEN ABOARD NUCLEAR SUBS.
AUDITORY AND VISUAL TESTS AND EVALUATION OF SUBMARINERS AND DIVERS.
HUMAN FACTORS EVALUATION OF CREWS IN SUBMARINE INFORMATION PROCESSING.
PHYSIOLOGICAL, PSYCHOLOGICAL AND COMMUNICATIONS RESEARCH IN COLD WEATHER.
HUMAN FACTORS.VISIUM.AUDITORY RSCH IN IMPROVED SONAR PROCESSING EQUIP.

*** FUNCTIONS/EQUIPMENT/CAPAE (LITIES BASIC AND APPLIED RESEARCH COMPETENCE IN CARDIOPULMONARY, THERMAL, AND HYPERBARIC PHYSIOLOGY, BIOCHEMISTRY, AUDITION, VISION, HUMAN FACTORS ENG., PERSONNEL ASSESSMENT, HYPERBARIC AND MECHNICAL SERVICES, ELECTRICAL INSTRUMENTATION AND REPAIRS, COMPUTER APPLICATIONS, VETERINARY SCIENCES, SUB.MED.RESEARCH LIBRARY, GRAPHIC ARTS, PHOTOGRAPHY, MODEL MAKING, HYPERBARIC CHAMBERS, HUMAN-150 PS1, ANIMAL-300 PSI AND 1000 PSI, ENVIR.CONTROL CHAMBERS, MEDICAL EXAM SUITE, SURGICAL SUITE, COMPUTER APPLICATION FACILITY, CLOSED CIRCUTRY SYSTEM, GAS CHROMATUGRAPHS, EEG, DOPPLER SYSTEM, SONAR STACK SIMULATION TEST SYSTEM, FLUIDIC CONTROL CONSOLE, AIR ION MONITORING SYSTEM, UNDERWATER TV SYSTEM.

CO. CAPT P.L. ANDERSON

TECH-DIR. MR J E COLVARD

	PKCGR A*	A DATA BY FISCAL Y	YEAR (MILLION	5)
PROGRAM	• • • • • • • • • • • • • • • • • • • •	1979	1980	•
			ACT + EST)	
TUTAL ROTEE		213.932	207.035	
TOTAL PROCURE	MENT	32.001	22.968	
TOTAL DEM		35.018	40.961	
TOTAL UTHER		27.655	21.166	
TOTAL ANNUAL	f A H	308.606	292.130	
TOTAL AUTORE		5404500		
TUTAL INHOUSE	<u>:</u>	149.335	176.476	
TUTAL INHOUSE	•	97.873	113.869	
ANNUAL UPERAT	- · · · · · · · · · · · · · · · · · · ·	62.979	72.479	
	PERSONNEL DA	ATA (END OF FY 1	979)	
PERSONNEL	AUTHURIZED	TOTAL	TOTAL	NON:-
	STRENGTH	PHDS	PRUF	PROF
MILITARY	125	3	61	64
CIVILIAN	4607	231	2117	2490
TUTAL	4732	234	2178	2554
	SPAC	CE AND PROPERTY		
ACRES		S OF SQUARE FEET	COST	(MILLION S)
	• •	IN OTHER		PRUP EQUIP

...MISSION

5380

THE PRINCIPAL NAVY RESEARCH, DEVELOPMENT & EVALUATION CENTER FOR SURFACE SHIP CUMBAT SYSTEMS, ORDNANCE, MINES, AND STRATEGIC SYSTEMS SUPPORT.

3117.019

90.47

85.325

1656.578 175.258 1285.183

...CURRENT IMPURTANT PROGRAMS
STRATEGIC SYSTEMS-THIDENT, PUSEIDON, MK500 RB, NWE, SMMT, SAFETY, SHP WPN SEC.
COMBAT SYSTEMS-SEAFIRE, TERRIER, TARTAR, AEGIS, MK56FC, MAG SILENCNG, SWMRWPN.
WEAPON SYSTEMS-MPWS, CW. CM; 51N/54 AMMO, HIPWR RAD, EXPL MAT, IR SRCH TRCK.

UNDERWATER SYSTEMS-MINES, MK 60 CAPTUR, QUICKSTRIKE RPLS, ASW, MKXX TORP. ELECTRONIC SYSTEMS-EMPASS, EMP, SLQ32, OTH, FEWSG, QUID CNTRL, LHA INTEL CNTR.

...FUNCTIUNS/EQUIPMENT/CAPABILITIES

FACILITIES INCLUDE-WIND TUNNELS TO MACH 20.BALLISTIC RANGES.1.75 MILLION GAL HYDRUBALLISTIC TANK.MAGNETIC STRUCTURE FACILITY FOR SHIP & SUB MODEL & SATELLITES.FBM DISCPAC PRODUCTION FACILITY.FACILITIES FOR ASSURANCE OF COMPUTER PROGRAMS FOR STRATEGIC AND TACTICAL MISSILE SYS, INTELLIGENCE PROCESSING SYS.GUNNERY AND MISSILE RANGE COMPLEX INCLUDING LAND-BASED DEVELOPMENT SITES FOR WEAPON CONTROL SYS.ELECTROMAGNETIC VULNERABILITY FACILITIES BOTH NUCLEAR & NON-NUCLEAR EFFECTS.FACILITIES FOR WARHEAD CHARACTERIZATION & DAMAGE TO TARGETS, DEVELOP & TEST FACILITIES FOR LASER AND ELECTRO-OPTICS SUBSYSTEMS, NONDESTRUCTIVE TESTING FACILITIES, DEEP WATER OFFSHORE FACILITIES FOR MINE SYS MOBILE TACTICAL WAR GAME FAC, EXPLOSIVES DEVELOPMENT FACILITIES, EXTENSIVE SCIFNTIFIC COMPUTER FACILITY FUZES, EXPLOSIVES, MATERIAL, AND MARINE CORPS SUPPORT FACILITIES.

CJ. CAPT. A.S. MCLARSEN

SCI. DIR. MR.C.S. SOLIDZY

30000 cd 1000	
PROGRAM 1979 1980	
(ACTUAL) (ACT + EST)	
TUTAL RUTGE 25.028 28.793	
TOTAL PROCUREMENT 0.339 0.265	
TOTAL USM 6.408 6.410	
TOTAL UTHER 0.846 0.741	
TOTAL ANNUAL LAB 32.621 36.209	
TOTAL INHOUSE 22.800 21.924	
TOTAL INHOUSE RDT&E 21.828 20.958	
ANNUAL UPERATING COST 0.000 0.000	

	PERSONNEL DATA	(END OF FY	Y 1979)	
PERSONNEL	AUTHURIZED	TOTAL	TOTAL	NON-
	STRENGTH	PHD\$	PROF	PROF
MILITARY	44	O	8	36
CIVILIAN	38	1	. 26	12
TUTAL	82	I	34	48

		SPAUT AN	U PRUPERTY	•		
ACRES	SPACE (THE	JUSANUS UF	SUUARE FE	ET)	COST (MILL)	ION \$)
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
1042	75.603	17.339	304.964	397.406	24.18	1.305

...MISSIUN

TO RROVIDE DEEP WATER DEV & UPRTNL T&E FCLTYS FOR UNDRWTR ACSTIC MESRMNT S,TSTNG, & CALBRING SONRS.PROVIDE ACURAT UNDRWTR, SRFCE, IN-AIR TRCKNG DATA ON SHIPS, SUBS, AIRCRET, & WPN SYSTMS.

***CURRENT IMPORTANT PROGRAMS
MK48 WEAPON SYSTEMS TRAINING CERTIFICATION PROGRAM
SHIP SILENCING PROGRAM
FLEET TRAINING/SUBKOC, SUBEX, SHAREM
AIRBURNE MINEX & TORPÉX/RANGEX
R&D TESTS/CAPTOR/MP SONAR/TOWED ARRAYS/LAMPS/BQQ 5/DICASS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
HIGHLY ADVANCED & INSTRUMENTED ASW WEAPONS, SUNAR & FORACS TEST MEASUREMENT RANGES IN SUPPORT OF NAVY ASW & UNDERSEA R&D PROGRAMS, & ASW FLEET ASSESMENT & OPERATIONAL READINESS.

INSTALLATION: UNDERWATER SYSTEMS CENTER

NEWPORT, RI.

CU. CAPT. A.S. MCLAREN

THCH.UIR.DR.C.NICHOLAS PRYOK.

	PRUGRAM DATA BY FISCAL	. YEAR (MILLION \$)
PRUGRAM	1979	1980
	(ACTUAL)	(ACT + EST)
TOTAL ROTGE	133.843	157.026
TUTAL PROCUREMENT	18.054	72.672
TOTAL DEM	1.816	69.124
TOTAL OTHER	14.722	12.602
TOTAL ANNUAL LAB	286.435	310.824
TOTAL INHOUSE	113,554	140.433
TOTAL INHOUSE ROTEE	56.111	73.082
ANNUAL UPERATING COST	34.325	?9 . 255
MINIONE OF ENAPERING COST	340.16.3	: 76470

	PERSUNMEL DATA	(EN) OF FY	1979)	
PERSONNEL	AUTHURIZED	TOTAL	TOTAL	NÚN-
	STRENGTH	PHDS	PROF	PRUF
MILITARY	99	1	26	73
CIVILIAN	2701	98	1397	1304
TUTAL	28 00	99	1423	1377

		SPACE AN	O PROPERTI	1		
ACRES	SPACE (TH	UUSANDS OF	SQUARE FE	EET)	COST (MILL	ION \$)
	LAB	ADMIN	UTHER	TOTAL	REAL PROP	EQUIP
367	1059.983	241.839	581.567	1883.389	45.97	53.078

...MISSIUN

TO BE THE PRINCIPAL NAVY ROTSE CENTER FOR SUBMARINE WARFARE & SUBMARINE WEAPON SYSTEMS.

...CURRENT IMPORTANT PROGRAMS
ADVNCO TECHNGY IN U/W ACOUTCS, OCEAN ENGRNG, INFO PROCSNG, WEAPONRY
DESGN, JEV EVAL U/W COMBAT SUB SYSTMS INCONG SUCHC SHIP SONAR MODRNZTN
ROTGE FOR OVERALL U/W COMBAT SYSTEMS (TRIDENT, 688, ETC)
DESGN, JEV & EVAL OF U/W TARGET SYSTEMS & MOBILE/FIXD U/W TEST RANGES
INTRODUCE TO FLEET & IN-SERVICE ENGINEERING OF MK 48

...FUNCTIONS/EQUIPMENT/CAPABILITIES

PRIMARY IN-HSE R&J CAPABLITY FOR NAVY & MARNE CRP SYSTEMS, SUBSYSTEMS &T-ECHNLGYS FOR SUNAR SYSTMS(HULL-TOWD/SUB COMCTNS SYSTMS INTEGRTN/SUB ANT-NA SYSTMS/UWTR WEAPN SYSTMS/UWTR TARGT SYSTMS/UWTR ACCUSTS PROPED (LANT & MED)UWTR RNGE TECHNLGY/KEDINESS OF IN-SRVCE SHIPBORD UWTR SYSTMS/ASW SUP, CINCLNT. TORPECO TEST RNGFS(FIXED/PORTBLE) SHLOW & DP WTR. ASW WEPON FRE CNTRL R&D FACILITY. ASW WEPON LAUNCHNG DEVCE R&D FACILY. QLTY ENGRNG, EVALTN & RELIABLTY LAB. BERNOUDA RSSH FACITY. TORPDO PROPULSN TEST FACITY. ELECTROMAGTIC FACILITY. SYSTMS CRTIFCTN & INTEGRTM FACILTY. ACCOUST C MSRMNT& XDUCER R&E FACITY, TURPEDO TEST RANGE. INSTRMNTN SHETER. ACCOUST C RNGE. AUT-EC. AZORES FIXD ACOUSTIC RANGE.

CU. CAPT. W. B. HAFF

TECH.DIR.MR.R.M. HILLYER

	PROGRAM	A DATA BY FISCA	AL YEAR (MILLION	\$)
PROGRAM		1979	1980	•
		(ACTUAL)	(ACT + EST)	
TUTAL ROTGE		181.390	201.846	
TOTAL PROCUREN	IENT	49.970	45.904	
TOTAL ORM		20.811	11.590	
TOTAL OTHER		31.780	31.162	
TOTAL ANNUAL L	. ▲B	283.951	290.502	
TOTAL INHOUSE		151.279	183.444	
TOTAL INHOUSE	RDT&E	102.713	127.780	
ANNUAL UPERATI	ING CUST	40.962	45.545	
	PERSONNEL JA	ATA (ENU TIF F	Y 1979)	
PERSONNEL	AUTHORIZED	TOTAL	TOTAL	NON-
	STRENGTH	PHUS	PROF	PRUF
MILITARY	583	0	29	554
CIVILIAN	3957	123	1387	2570`
TUTAL	4540	123	1416	3124
	SPAC	CE AND PROPERT	٧	
ACRES	SPACE (THOUSAND			(MILLION \$)
_		MIN UTHER	· · · · · · · · · · · · · · · · · ·	PROP EQUIP
1127016	1155.058 400.			6.91 98.172

...MISSION

THE PRINCIPAL NAVY RUTGE CENTER FOR AIR WARFARE SYSTEMS (EXCEPT ANTI-SUBMARINE WARFARE SYSTEMS) AND MISSILE WEAPON TYSTEMS, AND THE NATIONAL RANGE/FACILITY FOR PARACHUTE TEST AND EVALUATION.

... CURRENT IMPORTANT PROGRAMS

ANTI-AIR MISSIES AIM-9H/L/M SIDEWINDER, AIM/RIM-7F/M SPARROW, MSL COMPT ANTI-SURFACE WEAPONS A/RGM-84 HARPOON, FAE, ADVANCED TACTICAL MISSIES ELECTRONIC WARFARE AGM-88 HARM ANTI-RADIATION MISSIE, SIMULATION, EQUIP TAC A/C SYSTEMS INTEGRATION A-7E, A-6E, AV-8B, F/A-18, A/C SURV/VULN T AND E AIR/SURFACE-LAUNCHED WPNS, TACTICS, A/C HPN SYSTEMS, SUB/SYSTEMS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CONGULT IN-HOUSE RESEARCH AND ESTABLISH AND MAINTAIN PRIMARY IN-HOUSE
DEVELOPMENT, TEST, EVALUATION, AND IN-SERVICE ENGINEERING SUPPORT FOR
SPECIFIC NAVY, MARINE CORPS AND JOINT SERVICE PRODUCTS SUCH AS ANTI-AIR
MISSILES, ANTI-SURFACE HEAPONS, DEFENSE PENETRATION SYSTEMS, INTEGRATED
TACTICAL AIRCRAFT SYSTEMS. FACILITIES INCLUDE MICHELSON LAB, ELECTRONIC
WARFARE THREAT ENVIRONMENT SIMULATOR, SOLID STATE DEVICES LAB, ENCOUNTER
SIMULATION LAB, PROPULSION RESEARCH LAB, MICROELECTRONICS FACILITY,
EXPLOSIVES REC FACILITY, GROUND AND AIRCRAFT RANSES, EXTERIOR AND
TERFINAL BALLISTICS FANGES, ARMITAGE AIR FIELD, AIRCRAFT SURVIVABILITY
FACILITY, SUPERSONIC TEST TRACKS, MICROWAVE ANECHOIC FACILITIES, AND
LASER LAB.

CO. CAPT. D. R. WEICHMAN

TECH. DIR. DR E. G. GREWIS

	D Q (GRAM DA	TA BY 6190	AL YEAR (MI	1 1 TON + 1	
PROGRAM	FINE	ONA" UA	1979		80	
THOUNAN			ACTUAL)	(ACT + ES		
70.00 m		•			• •	
TOTAL RUTGE			2.193	2.8	39	
TOTAL PROCURE	MENT		0.888	0.9	50	
TOTAL UEM			1.493	1.5	39	
TOTAL OTHER			2.973	3.2	03	
TOTAL ANNUAL	LAB		7.547	8.5		
				0.	•	
TOTAL INHOUSE	:		6.741	7.6	82	
TUTAL INHUUSE	ROTEE		1.732	2.3		
ANNUAL OPERAT	- · · · · · · · ·		1.103	1.2		
THIONE CLERK	2110 0001		10103	1 • 6.	20	
	PERSUNNE	L JATA	(END OF F	Y 1979)		
PERSONNEL	AUTHURIZED		TUTAL	TUTA	t	NON-
	STRENGTH		PHDS	PRIT	-	PROF
MILITARY	147		11.03		, 5	132
CIVILIAN			•		-	
	107		2 3	_	9	68
TUTAL	254		3	,	4	200
		60465 A				
			NO PROPERT			
ACRES	SPACE (THOU	ISANOS O	F SQUARE F	EET)	COST (MILL	.ION \$)
	LAB	NIMCA	UTHER	TOTAL	REAL PROP	EQUIP
7	0.400	53.592	94.926	148.918	9.60	0.998

...MISSION

MISSION-PERFORM TEST, EVALUATION AND TECHNICAL SUPPORT FOR USN NUCLEAR WEAPON SYSTEMS. PLAN AND COURDINATE THE NAVY NUCLEAR WEAPONS SAFETY PROGRAM. PROVIDE TECHNICAL ASSISTANCE AND ADVICE TO PRESIDENT, BOARD OF INSPECTION AND SURVEY. ACT AS SUB-AREA COORDINATOR FOR COMELEVEN.

... CURRENT IMPORTANT PROGRAMS

PARTICIPATE IN THE DUE-DUD DEVELOPMENTAL PROGRAM FOR TOMAHAWK.

PARTICYPATE IN THE DOE-DUD DEVELOPMENTAL PROGRAM FOR STANDARD MISSILE-2.

PARTICIPATE IN DEVELOPING A NUC WPNS CAPABILITY FOR THE F/A-18 AIRCRET.

PARTICIPATE IN A CONCEPTIONAL STUDY FOR A NEW ASW WEAPON SYSTEM.

PARTICIPATE IN THE JUINT USN/USAF AIRBURNE LASER DEVELOPMENT PROGRAM.

... FUNCTIONS/EQUIPMENT/CAPABILITIES

CAPABILITIES—UN USN NUCLEAR WEAPON SYSTEMS: CONDUCT SAFETY STUDIES, SAFETY ANALYSES, SURVIVABILITY AND EFFECTS STUDIES, ANALYZE ACCIDENTS/INCIDENTS, UNSATISFACTORY REPORTS, AND CAPABILITY INSPECTION REPORTS. DEVELOP EMERGENCY DESTRUCT/DENIAL/DISABLE PRUCEDURES. ASSIST ON INSPECTION AND SURVEY OF NUCLEAR CAPABLE SHIPS AND AIRLRAFT. DEVELOP AIRCRAFT LOADING MANUALS AND CHECKLISTS. PARTICIPATE IN DOE-DOD DEVELOPMENT EFFORT. EVALUATE AIRCRAFT SUSPENSION, RELEASE AND ARMING SYSTEMS, BOMB DUMMY UNITS, LOADING, HANDLING AND TRAINING SHAPES. DEVELOP MILITARY CHARACTERISTICS, INTERFACE DRAWINGS, SAFETY AND ENVIRONMENTAL CRITERIA. REPRESENT USN AND LOR CUNDUCT VARIOUS MEETINGS OR SPECIAL DEVELOPMENT OR APPLICATION STUDIES. ACT AS DOE, DNA, AND OTHER SERVICE CO-TACT. DEVELOP A-D/OR REVIEW TECHNICAL PUBLICATIONS. SUPPORT NOW JUINT NUCLED WENS PUBLICATION SYSTEM.

INSTALLATION: MERO PROPULSION LABORATURY

WPAFB, OH.

CDR.CUL. GEORGE E. STRAND

CH. SCI. LTCOL CHARLE E. SIMON(ACTG)

PROGRAM	PRUGRAM DATA BY FISCAL	YEAR (MILLION \$)
1,001,7.1	(ACTUAL)	(ACT + EST)
TOTAL ROTEE	90.316	99.193
TOTAL PRICUREMENT	0.000	0.000
TUTAL UEM	0.000	0.000
TUTAL UTHER	0.988	1.057
TOTAL ANNUAL LAB	91.298	100.250
TUTAL INHOUSE	15.025	15.392
TUTAL INHOUSE ROTEE	14.037	14.335
ANNUAL OPERATING CUST	3.498	3.828

	PERSONNEL UATA	(END OF F	Y 1979)	
PERSONNEL	AUTHORI ZEO	JA FOT	TUTAL	NUN-
	STRENGTH	PHUS	PRUF	PROF
MILITARY	51	3	32	19
CIVILIAN	383	28	213	170
TOTAL	434	31	245	189

ACRES	SPACE (TH	SPACE AND PROPERTY SPACE (THOUSANDS OF SQUARE FEET)			CUST (MILLION \$)	
	L,AB	ADMIN	UTHER	TUTAL	REAL PROP	EQUIP
40	229.490	41.784	105.665	376.939	56.10	193.130

...MISSION

PLAN, FORMULATE AND EXECUTE RESEARCH AND EXPLORATORY, ADVANCED AND PROTUTYPE DEVELOPMENT PROGRAMS IN AIR-BREATHING PROPULSION, AEROSPACE POWER GENERATION AND DISTRIBUTION, AIRCRAFT FUELS, FUEL AND LUBRICATION SYSTEMS, AND FIRE PROTECTION. PROVIDE OPERATIONAL AND SYSTEMS SUPPORT.

...CURRENT IMPURTANT PROGRAMS
ADVANCED TURBINE ENGINE TECHNOLOGY DEMONSTRATORS
UPTIMOUE AVAILABILITY AND CUST OF AVIATION TURBINE FUELS
VARIABLE CYCLE ENGINES FOR MULTI-MISSION AIRCRAFT
RAMJETS FOR TACTICAL AND STRATEGIC MISSIES
AIRBORNE HIGH POWER GENERATION AND CONDITIONING

...FUNCTIONS/EQUIPMENT/CAPABILITIES
TURBINE ENGINE CUNTROL TEST FAC, BATTERY DEVELOPMENT AND TEST FAC, MHD
GENERATUR, LUBRICANT RIGS, SEAL TEST RIGS, BEARING RIGS, FUEL HANDLING
FAC, FIRE RESEARCH LAB, CURER LAB, FUEL ANALYSIS LAB, COMBUSTION FAC,
RUTUR TEST FAC, 6 SEA LEVEL TEST STANDS TO 60,000 LB THRUST, 2 TURBINE
ENGINE ALTITUDE CELLS TO 5,000 LB THRUST-MACH 1.5-50,000 FT, 2 PROPELLER
WHIRL RIGS TO 10,000 HP, DIRECT CONNECT RAMJET TEST FAC, RAMJET COMPONENTS LAB, EL-CTRO AERODYNAMIC CASER, HIGH TEMPERATURE TURBINE COMPONENT
TEST FAC, SAL, ERUSION RIG, AIRCRAFT ELECTRICAL PUWER FAC WITH THREE 350
HP DRIVE SUURCES AND AIRCRAFT SIMULATORS, VACUUM CHAMBERS, SUPERCONDUCTIVITY LAB, HIGH PUWER LAB TO 5 MW, THERMAL ENERGY STORAGE LAB,
HYDRAULICS LAB3 PLASMA PHYSICS LAB, HULUGRAPHY LAB, COMPRESSOR TEST FAC,
SOLAR CELL LAB

INSTALLATION: AERUSPACE MEDICAL RESEARCH LABORATORY

WPAI'B, OH.

CDR. COL. RUY L. DEMART

	PRO	GRAM DAT	A BY FISCA	AL YEAR (MI	LLION \$1	
PROGRAM			1979	19	80	
		(A	CTUAL)	(ACT + ES	T)	
TOTAL RUTGE			15.297	16.3	13	
FOTAL PROCURE	MENT		0.000	0.0	00	
TUTAL UEM			0.000	0.0	00	
TUTAL OTHER			0.000	0.0	00	
TOTAL ANNUAL	LAB		15.297	16.3	13	
TUTAL INHOUSE	<u>.</u>		6.561	6.6	14	
TOTAL INHOUSE	RUTGE		0.561	6.6	14	
ANNUAL OPERAT	TING COST		0.750	0.7	50	
	PERSONNI	EL DATA	(END OF F	Y 1,979)		
PERSONNEL	AUTHORIZED		TOTAL	TOTA	L	NON-
	STRENGTH		PHOS	PRO	F	PROF
MILITARY	135		16	5	6	79
CIVILIAN	154		22	9	4	60
TUTAL	289		38	15	60	139
		SPALE AN	D PROPERT	*		
ACRES	SPACE (THO	USANDS OF	SUUARE F	FET)	COST (MIL	LION \$)
	LAB	AUMIN	UTHER	TOTAL	REAL PRUP	EQUIP
30	73-614	5.247	87.764	166-625	21.20	27.835

...MISSIUN

ACCOMPLISH BEHAVIORAL AND BIUMEDICAL RESEARCH AND DEVELOPMENT TO DEFINE HUMAN TOLERANCE AND DEGRADATION OF HUMAN PERFORMANCE UNDER THE CONDITION OF ENVIRONMENTAL STRESS ASSOCIATED WITH AEROSPACE OPERATIONS AND PROVIDE SUPPORT TO SYSTEM DEVELOPMENT IN THE ABOVE AREAS.

...CURRENT IMPURTANT PROGRAMS

DEFINE TUXIC HAZARDS, ENVIR POLLUTION EFF OF MISSLE OPS-PROPELLANT TEST.
DEFINE EFFECT OF CREW PERF ON MANNED WEAPON SYSTEM EFFECTIVENESS.
DEV OPTICAL COUNTERMEASURE MECHANISMS FOR ADV DEV PROGRAM APPLICATIONS.
EFF OF OPERATIONAL NOISE AND VIBRATION ENVIRONMENTS ON AF PERSONNEL-OPS.
DEVELOP HUMAN PERFORMANCE ESTIMATES IN CHEMICAL WARFARE ENVIRONMENTS.

... FUNCTIONS/EQUIPMENT/CAPABILITIES

HUMAN DECELERATION SYSTEM TO SIMULATE THE COMPLEX ACCFLERATION ENVIRON ASSOCIATED WITH EJECTION AND CRASH LANDING DYNAMIC ENVIRONMENT SIMULATOR A SIX DEGREE OF PREEDOM MAN-RATED CENTRIFUGE USED TO SIMULATE SUSTAINED ACCELERATIONS SUCH AS THOSE ENCOUNTERED IN AIR CUMBAT MANEUVERING. THOMAS DUMES—EIGHT ALTITUDE EXPOSURE CHAMBERS TO SIMULATE EXOTIC ARTIFICIAL ATMOSPHERIC CONDITIONS. HUMAN ENCRMEENING SYSTEMS SIMULATUR FACILITY USED TO PERFORM REAL—TIME MAN—IN—THE—LUOP EXPERIMENTS AND DATA ANALYSIS. ANECHOIC AND REVERBERATION CHAMBERS TO ENABLE EXPERIMENTAL INVEST—IGATIONS OF POTENTIALLY HAZARDOUS NOISE TO DETERMINE EFFECTS ON BODY FUNCTION AND PERFORMANCE. VIVARIUM—LABORATORY RESEARCH ANIMAL FACILITY.

CUR. MAJ. ROBERT M. BOND

	PROGRAM		L YEAR (MILLION	\$)
PROGRAM		1979	1980	
		(ACTUAL)	(ACT + FST)	
TUTAL RDTEE		372.980	408.432	
TOTAL PROCUREMO	EN'T	789.463	513.771	
MAD LATOT		7.765	7.531	
TUTAL OTHER		77.819	80.904	
TOTAL ANNUAL LA	V8	1,248.527	1,010.638	
TOTAL INHUUSE		221 402	245 222	
	North of	231.403	245.327	
TOTAL INHOUSE		147.406	160.856	
ANNUAL UPERATIO	NG CUST	54.537	49.19%	
	PERSONNEL DA	TA (END OF FY	1979)	
PERSONNEL	AUTHURIZED	IOTAL	TOTAL	NON-
	STRENGTH	PHOS	PROF.	PROF
MILITARY	4646	28	851	3795
CIVILIAN	1743	37	801	942
TUTAL	6389	65	1652	4737
	\$ PAC	E AND PROPERTY		
ACRES	SPACE (THOUSAND			(MILLION \$)

UTHER LAB ADMIN 464219 320.295 976.427 10639.000 11935.722

TOTAL REAL PROP EQUIP 290.40 163.727

...MISSION RESPUNSIBLE FOR AIR-LAUNCH TACTICAL AND AIR DEF MSLS, NONNUC MUN, GUIDED WEAP, ELEC-OPTICAL WEP DEL SYS, A/C GUN, AMMO, RELATED EQUIP RESPON FOR BASIC TECHNOLOGY, DEVEL, TEST INITIAL ACQ AND DEPLOY. TEST MISSION INCL LEAD CENTER IN MUN, EMW, INTRUSIUN/INTERDICTION, AND CLIMATIC SIMULATION

... CURRENT IMPORTANT PRUGRAMS WIDE AREA ANTI-ARMOR MUNTION PRECISION GUIDANCE MUNTIONS ADVANCED MEDIUM RANGE AIR-TU-AIR MISSILE LUW ALTITUDE AIRFIELD ATTACK SYSTEM COMBINED EFFECTS MUNTION

...FUNCTIORS/EQUIPMENT/CAPABILITIES SCIENTIFIC/ENGINEERING PERSONNEL AND LABORATORY FACILITIES CAPABLE OF EXPLOR, ADV, ENG DEV OF NUNNUCLEAR MUNITIONS EQUIP. ARMAMENT SYSTEMS TEST ENVIRONMENT COVERING 725 SQ MI WITH LARGE ADJACENT WATER AREA HAS 28 TEST AREAS WITH INSTRUMENTED FACILITIES INCLUDING PRECISION TRACKING RADAR AND PHOTO-UPTICS IS USED FOR MUNITON S TESTING AND ELECTROMAGNET IC TEST ENVIRONMENT AN INSTRUMENTED CUMPLEX OF THREAT SYSTEMS FOR EVAL WPN SYST EFFECTIVENESS PROVIDES A REALISTIC ENVIRONMENT FOR TESTING A WPN SYST AGAINST AN ACTIVE DEFENSE SYSTEM A CLIMATIC LAB CAPABLE OF TESTING COMPLETE WPN SYSTEMS, A CUMPUTER SCIENCE LAB, A PHYSICAL SCIENCE LAB, A PHUTU LAB, AN INSTRUMENTATION/DESIGN/FABRICATION FACILITY, AERO--SALLISTIC RESEARCH FACILITY, HIGH EXPLUSIVE R/D FACILITY, A MISSILE SIMULATION AND TEST LABORATURY.

TULLAHUMA, TN.

INSTALLATION: ARNULD ENGINEERING DEVALOPMENT CENTER

COR. CUL. MICHAEL H.ALEXANDER CH.SCI. DR.BRUCE REESE

	PROGRAM DA	ATA BY FISCAL	YEAR (MILLION	\$)
PRUGRAM		1979	1980	
	(ACTUAL)	(ACT + EST)	
TOTAL ROTEE		124.567	137.488	
TOTAL PROCURE	MENT	0.000	0.000	
TOTAL UMM		0.022	0.021	
TOTAL UTHER		6.872	9.588	
TOTAL ANNUAL	LAB	131.461	147.097	
		ta ame	14.213	
TOTAL INHOUSE		16.375	<u> </u>	
TUTAL INHOUSE		14.429	12.093	
ANNUAL OPERAT	ING COST	29.8 79	31.983	
	PERSONNEL DATA	(END OF FY	1979)	
PERSONNEL	AUTHORIZED	TOTAL	TOTAL	NON-
, Ellosinie z	STRENGTH	PHOS	PROF	PROF
MILITARY	87	5	48	3 9
CIVILIAN	136	5	43	93
TUTAL	223	10	91	132
	60.65	ANN BURBERT		
	SPACE	AND PROPERTY		

ACRES	SPACE (TH		ID PROPERTY : SQUARE FI		CUST (MILL	ION \$)
7.0.120	LAB	ADMIN	OTHER		REAL PRUP	EQUIP
39081	1092 - 409	182.573	561.154	1836.136	378.77	60.850

***MISSION
PRIMARY MISSION IS TO SUPPORT THE TIMELY ACQUISITION OF SUPERIOR
A ERUSPACE SYSTEMS BY CONDUCTING RESEARCH AND DEVELOPMENT TESTS IN GROUND
ENVIRONMENTAL TEST FACILITIES WHICH SIMULATE THE ACTUAL CONDITIONS THAT
THE HARDWAKE WILL EXPERIENCE IN PERFORMING ITS MISSION

...CURRENT IMPORTANT PROGRAMS
CONTUNUED 6/16 STURE SEPARATION TESTS AND ENGINE COMPONENT IMPROVEMENT
CONDUCTED DEVELOPMENT TESTS OF 6/16,40/X, IUS, SPACE DEFENSE SYSTEMS
CONDUCTED ALLM ENGINE QUALIFICATIONS TESTS AND INLET-ENG COMPATIBILITY
CONTINUED EXTENSIVE MINUTEMAN PQA AND AGING AND SUPVEILLANCE TESTS
OTHER SIGNIF TESTS: 6/101 DFE, ABRES, SPACE SHUTTLE, 9/180 IMPACT, ROCKT PLUME

***.FUNCTIONS/EQUIPMENT/CAPABILITIES
AEDC IS COMPRISED OF ABOUT 40 TEST UNITS, INCLUDED ARE WIND TUNNELS WITH
TEST SECTIONS TO 16 FT SQ AND SPEEDS FROM SUBSONIC TO MACH 22; TURBINE
ENGINE TEST CELLS WHICH PROVIDE SIMULATION TO MACH 3, ROCKET TEST CELLS,
THE LARGEST KATED AT .5 MILLION LBS THRUST AT ALTITUDE; SPACE SIMULATION
CHAMBERS TO 42 FT DIA AND 82 FT HIGH; HYPERBALLISTIC RANGES; DUST AND
SNUW EROSION FACILITY; BIRD IMPACT FACILITY; SEVERAL CAPTIVE TRAJECTORY
SYSTEMS. THESE FACILITIES HAVE ESSENTIALLY SUPPORTED THE DEVELOPMENT AND
QUALIFICATION OF EVERY MAJOR AERONAUTICAL, MISSILF, AND SPACE SYSTEM
DEVELOPMENT SINCE 1954. BY PLANNING FOR AN ADECOMET GROUND ENVIRONMNETAL
TEST PROGRAM IN THESE FACILITIES, DEVELOPMENT PROGRAM MANAGERS CAN
ASSURE THAT SYSTEM DEFICIENCIES ARE FOUND EARLY, PREVENTING COST

WPAFB.OH.

INSTALLATION: AVIUNICS LABORATURY

CDR.CUL.R.F.LUPINA

CH-SCI-DR-J-C-RYLES

	PROX	GRAM DAT	A BY FISCA	L YEAR (MIL	.10N \$)
PROGRAM			1979	1980	ס
		(A	CTUAL	(ACT + EST	•
TOTAL ROTEE		1	39.592	146-449	3
YOTAL PROCURE	MENT		0.070	0.10)
FOTAL USM			0.500	0.60	
TUTAL OTHER			3.129	3.340)
TOTAL ANNUAL	LAd	1	43.291	150.48	3
TOTAL INHOUSE			31.991	32 - 27	9
TOTAL INHUUSE	RUTEE		28.862	28-93	9
ANNUAL OPERAT	ING COST		4.326	4.07	5
	PERSONNE	LDATA	(END OF FY	1979)	
PERSONNEL	AUTHORIZED		TOTAL	TOTAL	NON-
	STRENGTH		PHDS	PROF	PROF
MILITARY	170		8	108	62
CIVILIAN	774		32	427	
TOTAL	944		40	535	′ 409
		SPACE AN	D PROPERTY		
ACRES	SPACE (THOU	SANUS DE	SQUARE FE	ETI	COST (MILLION \$)
	LAB	ADMIN	UTHER	YOTAL	REAL PROP EQUIP
229	250.901	8.775	412.829	672.505	24.06 68.460

...MISSIUN

MAINTAINS AN AVIONICS TECHNOLOGY BASE THROUGH RESEARCH AND EXPLORATURY AND ADVANCED DEVELOPMENT. DEVELOPS AND DEMONSTRATES COST—EFFECTIVE AVIUNICS CONCEPTS TO REDUCE ACQUISITION AND OPERATING COST AND IMPROVE OPERATIONAL CAPABILITIES. SUPPORTS OPERATIONAL CHOS AND PRODUCT DIVISIONS.

...CURRENT IMPORTANT PROGRAMS

GPS USER EQUIPMENT - ANTI-JAMMING TECH AND PERFORMANCE EVALUATION

VERY HIGH SPEED INTEGRATED CIRCUITS TECHNOLOGY

ELECTRO-OPTICAL COUNTERMEASURES-TECHNOLOGY TO DEFEAT OPTICAL THREATS

DIGITAL AVIUNICS INFORMATION SYSTEM-INTEGRATED SYS ARCHITECTURE

ELECTRONICALLY AGILE RADAR-MULTIMODE RADAR FOR STRATEGIC APPLICATIONS

**.FUNCTIONS/EQUIPMENT/CAPABILITIES

"AINTAINS A WIDE RANGE OF AVIONICS SIMULATION, EVALUATION, DESIGN AND
FABRICATION CAPABILITIES ACROSS THE BROAD MISSION RANGE. AVSAIL IS FOR
ANALYSIS AND SIMULATION OF MULTIPLEX DIGITAL AVIONICS CONCEPTS, CSEL TOGETHER WITH TMAGE PROCESSING FAC AND SATCOM R/T CAN EVALUATE A-A, A-G AND
SATELLITE DAYA LINK PERFORMANCE. CAD/IC FAC IS USED TO DESIGN AND FABRICATE SPECIALIZED INTEGRATED/HYBRID CIRCUITS AND PRINTED WIRING BOARDS.
DEES, EDE AND EWAC CAN SIMULATE REAL WORLD SIGNAL/JAMMING ENVIRONMENT FOR
EVALUATION OF ELECTRONIC WARFARE SYSTEMS. TARGETING SYS CHARACTERIZATION
FAC CAN CURRELATE E-O SYSTEMS PERFORMANCE WITH MEASURED WEATHER CONDITIONS. DYNAMIC ANALYZER EVALUATES RECON SENSORS IN REALISTIC FLIGHT ENVIRUNMENT. LABS ARE MAINTAINED FOR EVALUATION OF AIRBORNE AND SPACECRAFT
SENSORS AND COMPONENTS FROM UPTICAL TO RADIO FREQUENCIES.

CDR. COL JUHN S. BURKLUND

	PROGRAM DATA BY FISCAL	YEAR (MILLION \$)
PROGRAM	1979	1980
	(ACTUAL)	(ACT + EST)
TOTAL ROIGE	0.000	0.000
TOTAL PROCUREMENT	6.008	4.594
MAG JATOT	176.248	183.781
TOTAL OTHER	2.403	2.403
TOTAL ANNUAL LAB	184.659	190.778
TOTAL INHOUSE	53.592	47.625
TUTAL INHUUSE ROTGE	0.000	0.000
ANNUAL UPERATING COST	16.824	13.355

	PERSONNEL DATA	(END OF FY	Y 1979}	
PERSONNEL	AUTHURIZED	TOTAL	TOTAL	NON-
	STRENGTH	PHOS	PROF	PKOF
MILITARY	942	2	120	822
CIVILIAN	1196	1	79	1117
TUTAL	2138	3	199	1939

	SPACE /	AND PROPERTY		
AURES	SPACE (THOUSANUS L	JF SQUARE FEET)	COST (MIL	LION \$)
	LAB ADMIN	UTHER TOTAL	REAL PRUP	EUUIP
18133	129.369 1213.525	4510.214 5853.108	370.31	406.696

...MISSION

SUPPORT OF LAUNCH PROGRAMS AND AIR/GROUND-LAUNCHED MISSILE SYSTEMS FROM CCAFS AND KSC, OPERATION OF THE ARIS IN SUPPORT OF JCS REQUIREMENTS, SUPPORT OF AEROSPACE DEFENSE COMMAND ON-ORBIT TRACKING REQUIREMENTS AND SUPPORT OF SPECIAL PROJECTS, DOCUMENTED RED TESTS AND TENANT ACTIVITIES.

***CURRENT IMPORTANT PROGRAMS

FBM PRUGRAMS — PUSE 100N, TRIDENT AND CHEVALINE

MIL SPACE SUPPORT PROGRAMS — TITAN THIC AND "ITAN 34D/HUS

MIL MISSILE SUPPORT PROGRAMS — SRAM/OTGE AND PERSHING

NASA — THOR/DELTA, ATLAS/GENTAUR AND SPACE SHUTTLE PROGRAMS

DOD SPACE TRANSPORTATION SYSTEM

... FUNCTIONS/EQUIPMENT/CAPABILITIES

ETR CAPABILITIES INCLUDE: ASSEMBLY, PRE-LAUNCH TESTING AND LAUNCH PERFORMANCE EVALUATION OF BALLISTIC MISSILES, LAUNCH VEHICLES, SPACE-CRAFT AND SATELLITES TO INCLUDE TRACKING, LONG DISTANCE COMMUNICATIONS, DATA TRANSMISSION, CULLECTIUM AND REDUCTION. EQUIPMENT AND FACILITIES INCLUDE MAINLAND AND DOWN-RANGE INSTRUMENTATION AND COMMUNICATIONS, INSTRUMENTED SHIPS, SCIENTIFIC DATA PROCESSING EQUIPMENT AND FACILITIES, PHOTO/ELECTRO-OPTICAL SYSTEMS AND SERVICES, MISSILE IMPACT LOCATION SYSTEMS, METEOROLOGICAL WEATHER STATIONS AND EQUIPMENT, AND RANGE TIMING SYSTEMS. EASTERN SPACE AND MISSILE CENTER OPERATES AND MAINTAINS CCAFS, MAINLAND SITES AND DOWN-RANGE STATIONS. SUPPORT FUNCTIONS INCLUDE LAUNCH SUPPORT SERVICES AND OVERALL MANAGEMENT OF THE ETR, INCLUDING CONTRACTOR OPERATIONS, PLANT ENGINEERING, LABS, SHOPS AND OTHER SPECIAL SERVICES.

CUR. COL.JOSEPH S. PIZZUTO

	PRU	GRAM DATA	A BY FISCA	L YEAR (MIL	LIUN \$)	
PROGRAM			1979	198	0	
		(A(CTUAL)	(ACT ← EST)	
TOTAL RUTEE			6.173	8.16	5	
YOTAL PROCURE	MENT		0.000	0.00	٥	
TUTAL U&M			0.481	0.50	0	
TOTAL OTHER			1.191	1.25	0	
TOTAL ANNUAL	LAB		7.845	9.91	5	
TUTAL INHOUSE			1.968	2.37	0	
TOTAL INHOUSE	RUTEE		0.301	0.62	0	
ANNUAL UPERAT	ING COST		0.150	0.15	0	
	PERSUNNE	L UATA	(END UF FY	1979)		
PERSONNEL	AUTHURIZEU		TOTAL	TOTAL		NON-
	STRENGTH		PHDS	PROF		PROF
MILITARY	89		5	45		44
CIVILIAN	15		2	11.		4
TUTAL	104		7	56		48
		SPACE AN	C PROPERTY			
ACRES	SPACE (THOU	JSANUS UF	SQUARE FF	ET)	COST (MILL	.ICH \$)
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
3	4.981	2.400	9.751	17.132	1.60	1.202

...MISSIUN

ATR FORCE LEAD AGENCY FOR RESEARCH, DEVELOPMENT, TEST & EVALUATION IN THE AREAS OF CIVIL ENGINEERING & ENVIRONMENTAL QUALITY. FOCAL POINT FOR FACILITIES ENERGY RDTE.

...CURRENT IMPORTANT PROGRAMS
RAPID RUNWAY REPAIR AND NEW AIRCRAFT OPERATIONAL SURFACES
ENVIRONMENTAL QUALITY AND ASSESSMENT RESEARCH AND DEVELOPMENT
SURVIVABILITY/VULNERABILITY OF FACTLITIES
ENERGY CONSERVATION AND ALTERNATE ENERGY SOURCES
FIRE PROTECTION

... FUNCTIONS/EQUIPMENT/CAPABILITIES
EST. HAS ACCESS TO LABORATURIES AND TEST FACILITIES TO PERFORM
QUALITATIVE AND QUANTITATIVE MEASUREMENTS ON CORROSION, ENGINEERING
MATERIALS, PAVEMENTS, SOIL MECHANICS, AIR QUALITY, WASTE TREATMENT
PROCESSES, FIRE EXTINGUISHING AGENTS, AND HARDENED AIRCRAFT SHELTERS.
EQUIPMENT INCLUDES FLAME AND ABSORPTION SPECTROPHOTOMETERS, WATER/WASTE
STANDARD METHODS TEST EQUIPMENT, AND A MICROPROCESSOR DEVELOPMENT SYSTEM
REMOTE TERMINAL ACCESS IS AVAILABLE TO A CDC 6600 SCIENTIFIC COMPUTER
WITH JFF-LINE PLUTTING CAPABILITY. A RINWAY REPAIR/ALTERNATE LAUNCH
SURFACE TEST SITE HAS A 200 X 600 FOOT TYPICAL RUNWAY SECTION.

INSTALLATION: FLIGHT DYNAMICS LABORATORY

WPAFB, OH.

CDR.CUL.R.C. BARLOW

DEP.OIR.MR.K.I. COLLIER

	PROGRAM DATA BY FISCAL	. YEAR (MILLION \$)
PROGRAM	1979	1980
	(ACTUAL)	(ACT + EST)
TOTAL HOTGE	93.702	100.330
TOTAL PROCUREMENT	0.000	0.000
TOTAL UEM	0.383	0.485
TUTAL OTHER	3.094	13.111
TUTAL ANNUAL LAB	97.179	113.926
TOTAL INHOUSE	37.894	36.918
TOTAL INHOUSE ROTGE	34.597	33.522
ANNUAL UPERATING CUST	13.177	13.836

	PERSONNEL DATA	IEND OF FY	(1979)	
PERSUNNEL	AUTHURIZED	TOTAL	TUTAL	NON-
	STRENGTH	PHDS	PROF	PROF
MILITARY	198	11	115	93
CIVILIAN	722	27	443	279
TUTAL	920	33	558	362

		SPACE AN	U PROPERTY	,		
ACRES	SPACE (THU	USANDS OF	SQUARE FE	ET)	COST (MILL	ION \$)
	L,AB	ADMIN	OTHER	TOTAL	REAL PRUP	EÖNIÞ
92	518.859	5.408	143.317	667,584	26.18	50.516

...MISCION

PLAN AND EXECUTE USAF RESEARCH EXPLORATORY AND ADVANCED DEV PROGRAMS FOR ABRUSPACE FLT VEHICLE STRUCTURES ABRUDYNAMICS FLT CONTROL VEHICLE DYN AND VEHICLE BUILP. LEAD ABSULAB FOR EXPER FLT VEHICLES. ABSO FOCAL PT FOR NONNUCLEAR SURVIVABILITY PROG. EVALUATE CONTRACTOR & R AND D PPOG.

...CURRENT IMPORTANT PROGRAMS
ADVANCED COMPOSITE STRUCTURES
ADVANCED FIGHTER TECHNOLOGY INTEG
COMBINED ENVIRONMENT RELIABILITY TEST
DIGITAL FLIGHT CONTROL SYSTEM
FLIGHT VEHICLE TECHNOLOGY

...FUNCTIONS/EQUIPMENT/CAPABILITIES

STRUCTURAL TESTING OF F-15 VERTICAL TAIL AND F-16 HORIZONTAL TAIL WITH PROGRAM CONTROLLED SIMULATION OF FURCE AND THERMAL FLT ENVIRONMENTS WERE ACCOMPLISHED IN THE STRUCTURES TEST FACILITY. LANDING GEAR TEST FACILITY, WHICH DYNAMICALLY SIMULATES LANDING GEAR COMPONENT PERFORMANCE, PERMITTED INITIATION OF GETOL, TEST FIXTURE DEVELOPMENT, TEST/EVALUATION. DEVELOPMENT OF CONTROL LOSS FOR AFTI-16 AND THE EVALUTATION AND VALIDATION OF IFFC-1 CONCEPT FOR F-15 WERE PERFORMED IN THE ENGINEERING FLT SIMULATION FAC. BALLISTIC RANGES ASSESSED VOLNERABILITY OF AIRCRAFT DRY BAYS TO MISSLE WARHEAD FRAGMENT IMPACT BY SIMULATING THREAT FUEL STRUCTURAL AND AERODY NAMIC ENVIRONMENTS. THE FAVORABLE INTERFERENCE CONCEPT WAS EXPERIMENTALLY VERIFIED.

CUR.86.P.J. CONLEY, JR.

TECH.DIR. MK F.N. STOLIKER

	PROGRAM DATA BY FISCAL	YEAR (MILLION \$)
PROGRAM	1979	1980
140011711	(ACTUAL)	(ACT + EST)
TOTAL ROTEE	93.354	100.274
TOTAL PRUCUREMENT	1.557	0.832
TOTAL OSM	8.910	11.483
TOTAL OTHER	52.683	50.193
TOTAL ANNUAL LAG	156.504	162.782
TOTAL INHOUSE	119.136	131.687
TOTAL INHOUSE ROTGE	70.324	77 <u>-571</u>
ANNUAL OPERATING CUST	42.830	45.057

PERSONNEL	PERSONNEL DATA AUTHORIZED STRENGTH	TOTAL PHDS	TOTAL PRUF	NON~ PROF,
MILITARY	3461	1	136	3325
CIVILIAN	1675	3	194	1481
TOTAL	5136	4	330	4806

			NO PROPERTY			
ACRES	SPACE (TH	IO RUNARUG	= SUUARE FL		COST (MILI	
	LAB		UTHER		REAL PROP	
227071	102.125	263.504	6737.323	7102.952	279.06	124.052

...MISSION TESTS MANNEU/UNMANNEU AERUSPACE VEH, INCL ALL-WEATHER. FLT EVAL AERUSPACE RSCH VEH AND DEV TEST ARRUDYNAMIC DECFLERATORS. USAF TEST PILOT SCHOOL. SUPPORTS USAF, DOD, GUV, FOREIGN AND CONTRACTOR TEST/EVAL. UTAG TEST AND TRAINING RANGE AND EDWARDS FLIGHT TEST RANGE

... CURRENT IMPORTANT PROGRAMS

ALCH DT AND E

F-16 DT AND E

A-10 DT AND E

F-15 DT AND E

B/1 DT AND E

... FUNCTIONS/EQUIPMENT/CAPABILITIES FACILITIES AND EQUIP ARE AVAILABLE FOR COMPLETE RANGE OF SERVICES TO CONDUCT OF AND E FLT TESTS OF AERUNAUTICAL SYS OVER LUNG DISTACES, TO CUNDUCT FLT EVAL AND RECOVER, RSCH VEH, AND TO TRAIN FEST PILUTS.FLIGHT TEST MISSION CONTROL COMPLEX, ENGRG FACILITIES, REAL-TIME INSTRUMENTED RANGES, DATA COLLECTION, REDUCTION AND ANALYSIS FAC, PHOTO/TV.ACFT/ENGINE MAINT, TEST EQUIP, ELECTRONIC SHOPS, AND DRY LAKES FOR REGOVERY AND EMERGENCY LANDINGS PROVIDE SUPPORT FOR ALL PROGRAMS. OTHER FACILITIES ARE PRECISION IMPACT GUNNERY/BOMBING, INFRARED/PHOTO RESOLUTION, RADAR FIDELITY, TACTICAL AND OPTICAL RANGES, ENGR SIMULATOR, MUNITIUNS STURAGE AND CHECKUUT AND CUNTRACTOR-ASSIGNED HANGARS, SHOPS, UFFICE SPACE, ETC.

CDR.LT.CUL.W.D.SIURU

CH.SCI. (ACTING) CAPT.D.R.STEVENS

	PRUGRAM DA	TA BY FISCA	L YEAR (MILI	ION \$)	
PRUGRAM		1979	1980)	
	()	ACTUAL)	(ACT + FST)	
TOTAL RUTEE		0.638	0.65	1	
TOTAL PROCURE	MENT	0.000	0.000)	
TOTAL DEM		0.000	0.000)	
TOTAL OTHER		0.620	0.65	7	
TOTAL ANNUAL	LAB	1.258	1.30	9	
TOTAL INHOUSE	:	1.258	1.30	3	
TOTAL INHOUSE	: RDT&E	0.638	0.65	1	
ANNUAL OPERAT	ING COST	0.050	0.05	5	
	PERSONNEL DATA	(END OF FY	(1979)		
PERSONNEL	AUTHUR 12ED	TOTAL	TOTAL		NON-
	STRENGTH	PHDS	PROF		PROF
MILITARY	24	17	21		3 3
CIVILIAN	9	1	6		3
TOTAL	33	18	27		6
		NU PROPERTY			
ACRES	SPACE (THOUSANDS O	F SQUARE FE	ET)	COST (MILL	ION \$)
	LAB ADMIN	OTHER	TUTAL	REAL PROP	EQUIP
1	14.003 1000.000	0.000	1019.003	1.72	1.689

...MISSION

CONDUCT RESEARCH IN ABRUSPACE MECHANICS; APPLIED MATHEMATICS & CHEMISTRY. ENCOURAGE & SUPPURT ACADEMY FACULTY & CADET RESEARCH BY DIRECT PARTICI-PATION. MONITOR FACULTY CONSULTANT PROG., SUMMER RSCH PROG., FOCAL POINT FOR USAF ACADEMY RESEARCH PROPOSED TO DE RESEARCH & TECHNOLOGY LABS (AFSC).

...CURRENT IMPURIANT PRUGRAMS

BATTERY RESEARCH & ELECTRUCHEMISTRY OF MOLTEN SALTS, ENERGETIC MATERIALS RESEARCH, CHEMICAL MOLECULÁR DYNAMICS OF LASERS AND PLUMES. APPLIED OPERATIONS RESEARCH, INERTIAL GUIDANCE TESTING, ADVANCED SENSOR DEVELOPMENT, MICROPROGESSOR RESEARCH. FLUID DYNAMICS, UNSTEADY AERUDYNAMICS.

... FUNCTIONS/EQUIPMENT/CAPABILITIES

MOLTEN SALT MELT STRUCTURE, CUNDUCTIVITY LELECTRODE REACTIONS. EXPLOSIVE & PROPELLANT SYNTH, DECUMPOSITION MECHANISMS OFFONATION PHENOMENA. GENERAT-ION, MSMT, SPECTRUSCOPY & CALC. OF EXCITED STATE SPECTES. IR, UV, NMR, EPR, X-RAY&MASS SPECTS, GAS&LIQ CHROMATUGRAPHS, ELECTRON MICROSCOPE, SPECIAL SPECTRUMETERS & CONDUCTIVITY EQUIP., ASSUC FACILITIES FOR WET CHEMISTRY. ADVANCED ANALYSIS & EVALUATION TECHNIQUES FOR INERTIAL GUIDANCE SENSORS USING 2-AXIS TEST TABLE (GYRO), AUTOMATIC AZIMUTH ALIGNMENT EQUIPMENT & ELECTRUNIC CUNTRUL EQUIP FOR 50 SERIES INERTIAL DEVICES LOCATED IN A CLASS 1000 CLEAN LAB ON 80 TON AIR SUPPURTED STABLE PLATFORM. PDP 11/45 MINI COMPUTER & SOFTWARE TO AUTOMATE GYRO RESEARCH. AERODYNAMIC RESEARCH IN USAFA SUBSONIC & TRISONIC WIND TUNNELS, HOLDGRAPHIC & OTHER OPTICAL FLOW VISUALIZATION INSTRUMENTATION.

306

CDR. COL. JAMES F. BAKER

TOTAL

CH.SCI.DR. JOHN N. HOWARD

	PROGRAM DA	TA BY FISCA	L YEAR (MILLION	\$)
PROGRAM		1979	1980	
	(ACTUAL)	(ACT + EST)	
TOTAL RUTGE		51.065	55.390	
TOTAL PROCURS	MENT	0.000	0.000	
TOTAL OEM		0.000	0.000	
TOTAL OTHER		9.643	10.580	
TOTAL ANNUAL	LAB	60.708	65.970	
TUTAL INHOUSE	1	34.143	31.534	
TOTAL INHOUSE	RUTEE	26.000	27.820	
ANNUAL OPERAT	ING COST	6.000	6.600	
	PERSONNEL DATA	(END OF FY	1979)	
PERSONNEL	AUTHURIZED	TOTAL	TOTAL	NON-
	STRENGTH	PHDS	PROF	PROF
MILITARY	120	7	41	79
CIVILIAN	498	74	271	227

SPACE AND PROPERTY

ACRES	SPACE (THE	USANDS OF	SQUARE FEE	ET)	COST (M	ILLION \$)
	LAB	ADMIN	OTHER	TUTÁL	REAL PRI	OP EQUIP
36 8	391.903	15.006	25.883	432.792	9.7	1 29.700

81

312

...MISSIUN
CONDUCTS AND SUPPORTS AF RELEVANT RESEARCH AND EXPLORATORY
UEVELOPMENT IN ENVIRONMENTAL AND PHYSICAL SCIENCES
WITH MAJOR EMPHASIS ON GEOPHYSICS. ALSO CONDUCTS
AND SUPPORTS SPECIFICALLY ASSIGNED ADVANCED DEVELOPMENT EFFORTS.

618

...CURRENT IMPORTANT PROGRAMS
SPACECRAFT CHARGING TECHNOLOGY
SURFACE WEATHER OBSERVING AUTOMATION
STRATOSPHERIC ENVIRONMENTAL IMPACT ASSESSMENTS
OPTICAL, INFRARED AND UV BACKGROUNDS FOR SURVEILLANCE SYSTEMS
GEODETIC AND GEOKINETIC EFFECTS ON MISSILE CEP

...FUNCTIONS/EQUIPMENT/CAPABILITIES
CONDUCTS RESEARCH AND TECHNICAL DEVELOPMENT IN TERRESTRIAL
SCIENCES, METEOROLOGY, AERONDMY, AND OPTICAL, SPACE AND SOLAR
PHYSICS RELATING TO AIR FURCE NEEDS. EQUIPMENT AND SACILITIES
INCLUDE RADIO TELESCOPES FOR SULAR RESEARCH; ONE C-130 AIRCRAFT
FOR METEOROLOGICAL RESEARCH; ROCKET AND BALLOON LAUNCH FACILITIES;
TWO KC-135 AIRCRAFT FOR OPTICAL, UPPER ATMOSPHERIC AND NEAR EARTH
SPACE STUDIES; AND TWO CDC 6600 COMPUTER SYSTEMS.

INSTALLATION: HUMAN RESOURCES LABORATURY

BROOKS AFB, TX.

33.182

CDR.COL. RUNALD H. TERRY

VICE CDR.COL.KENNETH E.STOUT

180.808

	PROGRAM D	ATA BY FISCA	L YEAR (MILLION	(\$)
PRUGRAM		1979	1980	
		(ACTUAL)	(ACT + EST)	
TOTAL ROTGE		22.477	19.017	
TUTAL PROCURE	MENT	0.120	0.000	
TOTAL DEM		0.930	0.984	
TOTAL OTHER		2.636	2.821	
TOTAL ANNUAL	LAB	26.163	22.822	
TOTAL INHOUSE		10.728	11.743	
TOTAL INHOUSE	ROTAL	8.077	8.913	
ANNUAL OPERAT	ING COST	1.061	1.489	
	PERSONNEL DATA	(END DE FY	1970)	
PERSONNEL	AUTHUR1ZED	TOTAL	TOTAL	NON-
1. Elthounte	STRENGTH	PHUS	PROF	PROF
MILITARY	127	12	84	43
CIVILIAN	238	42	- ·	· -
· · · · · · · · · · · · · · · · · · ·			144	94
TOTAL	365	54	228	137
	SPACE	AND PROPERTY		
ACRES	SPACE (THUUSANDS			(MILLION \$)
	LAB ADMIN			PRUP EQUIP

...MISSION

13

PRINCIPAL AFSC ORGANIZATION CHARGED MITH PLANNING AND EXECUTING EXPLORATION AND ADVANCED DEVELOPMENT PROGRAMS FOR SELECTION, MUTIVATION, TNG, RETENTION, EDUCATION, UTILIZATION AND CAREER DEVELOPMENT OF AF MILITARY PERSONNEL: COMPOSITION OF PERSONNEL FURCE; AND TNG EQUIPMENT:

54.680

49.759

... CURRENT IMPURTANT PROGRAMS

ADVANCED DEVELOPMENT IN THE USE OF SIMULATION FOR UNDERGRADUATE PILOT AND AEROSPACE CREW TNG. IMPROVED PERSONNEL SELECTION, CLASSIFICATION, EVALUATION AND UTILIZATION TECHNIQUES. HUMAN FACTORS IN DESIGN OF WPN SYSTEMS. DESCRIBING, EVALUATING AND STRUCTURING AF OCCUPATIONS. IMPROVED TECHNICAL ING THROUGH ALMANCED INSTRUCTIONAL SYSTEMS.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

76.369

OCCUPATIONAL ANALYSIS; PERSONNEL PROCUREMENT, CLASSIFICATION, RETENTION AND SEPARATION; COMPUTER SIMULATION MODELS FOR PERSONNEL SYSTEMS; MAN-POWER ROMTS OF AF WEAPONS SYS; TNG TECHNIQUES; DESIGN OF SIMULATORS AND OTHER TRAINING DEVICES; CONDIACT TRNG RESEARCH ASSOCIATED WITH PILOT TRNG USING SOPHISTICATED HIGH-FIDELITY A/C SIMULATORS; ADVANCED INSTRUCTIONAL SYSTEM; INDIVIDUALLY PACED COMPUTER ALOED TECH INSTRUCTION; ADVANCED STMULATOR FOR UPT; ADVANCED INSTRUCTIONAL SYSTEM; SIMULATION AND TRAINING ADVANCED RESEARCH SYSTEM; SIMULATION FOR MAINTENANCE TRAINING. TECHNICAL LIBRARY, PERSONNEL TESTING ROUMS; COMPUTER, UNIVAC 1108 ELECTRONIC DATA PROCESSING SYSTEM WITH 2 CPUS, 16 TAPE DRIVES, 16 DISC DRIVES 21 UNISCOPE INTERACTIVE TERMINALS, GRAPHICS DISPLAY CONSOLE, 2 PRINTERS, CARD READER, CARD PUNCH, LLEC ASSOC TR 48 ANALOG COMPUTER.

VACANT

CH.SCI. UR. NORMAN TALLAN

	PROGRAM DATA BY FISCA	L YEAR (MILLLON \$)
PRUGRAM	1979	1980
	(ACTUAL)	(ACT + FST)
TOTAL ROTEE	63.389	56.882
TOTAL PROCUREMENT	26.564	56.200
TUTAL UEM	0.000	0.000
TOTAL UTHER	1.204	1.290
TOTAL ANNUAL LAB	91.157	114.372
TUTAL INHOUSE	10.745	18.848
TOTAL INHOUSE ROTEE	15.541	17.558
ANNUAL UPERATING COST	4.846	6.064

	PERSONNEL JATA	(END OF F	Y 1979)	
PERSUNNEL	AUTHURIZED	TUTAL	TUTAL	NON-
	STRENGTH	PHUS	PRUF	PRUF
MILITARY	54	8	47	7
CIVILIAN	359	うら	239	120
TOTAL	413	64	286	127

		SPACE AN	U PROPERTY			
ACRES	SPACE (THE	JUSANUS OF	SQUARE FE	ET)	CUST (MILL	ION \$1
	LAB	AUMIN	OTHER	TUTAL	REAL PROP	EQUIP
15	228.809	39.681	117.009	385.499	23.34	17.041

...MISSION

PLAN/EXECUTE EXPLORATURY AND ADVANCED DEVELOPMENT, AND ASSIGNED BASIC RSCH, PRUGS. FOR MATERIALS. PROVIDE TECH./MANAGEMENT ASSISTANCE FOR STUDIES, ANALYSES, DEVELOPMENT PLANNING, ACQUISION, TEST, EVALUATION MOD. AND OPN. OF AEROSPACE SYSTEMS. MANAGE, DIRECT A.F. DIRECT MFG. PROG.

...CURRENT IMPORTANT PROGRAMS
ADV_NCED DEVELOPMENT OF LASER HARDENED MATERIALS
MANUFACTURING TECHNOLOGY COST REDUCTION PROGRAM FOR METALS, NONMETALS AND
THERMAL PROTECTION MATERIALS FOR REENTRY VEHICLES
PROPULSION MATERIALS
SYSTEMS SUPPORT

...FUNCTIONS/EQUIPMENT/CAPABILITIES
MATERIALS RESEARCH AND DEVELOPMENT FACILITIES AND CAPABILITIES FOR —
AERUSPACE STRUCTURES, THERMAL PROTECTION SYSTEMS FOR BALLISTIC REENTRY
VEHICLES AND ENGINES, FLUIDS, LUBRICANTS, FLUID CONTAINMENT, PROPULSION,
COATINGS, FIBERS, EM WINDOWS, SENSURS, DISPLAYS, LASER WINDOWS, AND
OPT DEVICES, ELECT COMPONENTS, NON-DESTRUCTIVE TESTING, POLYMERS,
ADHESIVES, NONMETALLIC MATRIX COMPONENTS, ELASTOMERS, METALS, ALLOYS,
METAL COMPOSITES, METAL PROCESSING, INTERMETALLICS, CERAMICS, STATIC
AND DYNAMIC BEHAVIOR. JOINING, GRAPHITE, ELECTRONIC, PHYSICAL, CHEMICAL
ANALYSIS. OTHER MAJOR MATERIALS FUNCTIONS—MANUFACTURING TECHNOLOGY,
SYSTEM APPLICATION, SYSTEM SUPPORT, THERMAL PROTECTION MATERIALS.

DIR.DR. LAWRENCE C. KRAVITZ

	PRUGRA	M DATA BY FISCA	L YEAR (MILLION	\$)
PRUGRAM		1979	1980	
		(ACTUAL)	(ACT + EST)	
TOTAL ROTGE		100.130	113.434	
TOTAL PROCURE	MENT	0.000	0.000	
MAU JATOT		0.000	0.000	
TOTAL UTHER		1.048	1.121	
TUTAL ANNUAL	LAB	101.178	114.555	
TOTAL INHOUSE	:	23.282	25.661	
TUTAL INHOUSE	ROTGE	22.234	24.540	
ANNUAL OPERAT	ING CUST	0.000	0. 200	
	PERSONNEL D	ATA (END OF FY	1979)	
PERSONNEL	AUTHORIZED	TOT AL	TOTAL	NON-
	STRENGTH	PHDS	PROF	PROF
MILITARY	45	7	17	28
CIVILIAN	99	19	23	76
TOTAL	144	26	40	104
	SPA	CE AND PROPERTY		
ACRES	SPACE (THOUSAN	DS OF SQUARE FE	ET) CUST	(MILLION \$)
	LAB AÙ	MIN OTHER	TOTAL REAL	PRUP EQUIP
0	0.000 41.	300 1.700	43.000	0.00

...MISSION
MANAGES THE AF RESEARCH PROGRAM, PREVENTS TECHNOLOGICAL SURPRISE, ASSISTS
IN SOLVING TECHNOLOGICAL PROBLEMS, PROVIDES RESEARCH OPTIONS, ENHANCES THE
CONTINUED SUPERIORITY OF THE AF OPERATIONAL CAPABILITY, ASSISTS IN
TRANSITION OF PRODUCTS OF THAT RESEARCH TO DEVELOPMENT ACTIVITIES.

...CURRENT IMPORTANT PROGRAMS DIRECTED ENERGY STRATEGIC SYSTEMS RESEARCH SYSTEMS AUTUMATION CUMMAND AND CUNTROL ENERGY EFFICIENT AERONAUTICS

...FUNCTIONS/EQUIPMENT/CAPABILITIES
MANAGE THE AIR FURCE RESEARCH PROGRAM AND SPONSER EXTRAMURAL RESEARCH.

CDR.COL.WILLIAM F.MORRIS

CH. SCI. DR.RICHARD R.WEISS

PROGRAM	PROGRAM		YEAR (MILLION	\$)
PRUGRAM		1979	1980	
		(ACTUAL)	(ACT + EST)	
TOTAL ROTEE		36.145	38.005	
TOTAL PROCURE	MENT	0.002	0.205	
TOTAL DEM		0.000	0.000	
TOTAL UTHER		2.300	2.400	
TOTAL ANNUAL	LAS	38.447	40.610	
TOTAL INHOUSE		13.468	14.169	
TOTAL INHUUSE	ROTEE	11.166	11.564	
ANNUAL OPERAT	ING COST	0.550	0.600	
	PERSONNEL DAT	TA (END UF FY	1979)	
PERSONNEL	AUTHURIZED	TUTAL	TOTAL	NON-
	STRENGTH	PHDS	PRUF	PROF
MILITARY	176	2	64	112
CIVILIAN	255	13	90	165
TUTAL	431	15	154	277
	SPACI	E AND PROPERTY		
ACRES	SPACE (THOUSAND		ET) COST	(ATILION S)

LAB AUMIN UTHER 68345 419.046 86.848 4.780

TUTAL REAL PROP EQUIP 510.674 125.00 23.487

...MISSION

CONDUCT THE AIR FUNCE'S ROCKET PROPULSION EXPLORATORY AND ADV DEVEL PROGRAMS TO PROVIDE ADV TECH FOR FUTURE ICBMS, STRATEGIC AND TACTICAL AIR LA UNCHED MISSILES, SPACE VEHICLES, AND SATELLITES. PROVIDES ROCKET PROPULSION TECHNOLOGICAL SUPPORT TO DOD AND NON-DOD AGENCIES.

... CURKENT IMPURTANT PROGRAMS

PROVIDE REDUCED RISK PROPULSION OPTIONS FOR MX FULL SCALE DEVEL. PROVIDE SOLID ROCKET SIGNATURE, PERFORMANCE, AND ENERGY MGT OPTIONS FOR A/L LAU NCHED MISSILES DEMO 30 TO 50 PERCENT REDUCTION IN COST OF HIGH PRODUCTION RATE SOLID ROCKETS. DEMO AN IMPROVED PERFORMANCE KICK MOTOR TECHNOLOGY FOR SPACE APPL. DEMO LONG LIFE MONOPROPELLANT SATELLITE THRUSTERS.

... FUNC TIONS/EQUIPMENT/CAPABILITIES

A PHYSICAL SCIENCE LAB FOR SYNTHESIS, ANALYSIS AND FORMULATION OF NEW PROPELLANTS. FACILITIES FOR MIXING. CASTING, CURING AND TESTING SOLID ROCK ET MOTURS. A SOLID MOTOR TEST AND EVAL COMPLEX FOR INVESTIGATION OF COMBUSTION, AGING, STRUCTURAL INTEGRITY, BALLISTIC PERFORMANCE AND HIGH TEMP COMPONENTS. LAB FOR TESTING SMALL ATTITUDE CONTROL AND SATELLITE PROPUL SION SYSTEMS AND COMPONENTS UNDER SIMULATED SPACE ENVIRONMENTS. ALTITUDE TESTING OF LIQUID AND SOLID ROCKETS UP TO 500,000 POUNDS THRUST. AMBIENT TESTING OF LIQUID OR SOLID ROCKETS UP TO 500,000 POUNDS THRUST. IN-HOUSE ANALYTICAL CAPABILITY FOR DESIGN, ANALYSIS, AND TEST DATA REDUCTION. SHOPS FOR FABRICATING TEST HARDWARE AND TEST SYSTEMS. A FULL SCALE REENTRY NOSETIP TEST FACILITY.

CDR.COL. DUNALD J. STUKFL

CH.SCI.DR. JOHN S. BURGESS

	PROGRAM DATA BY FISC	AL YEAR (MILLION \$)
PROGRAM	1979	1980
	(ACTUAL)	(ACT + EST)
TOTAL ROTEE	159.571	179.972
TOTAL PROCUREMENT	15.594	5.498
TOTAL UEM	27.244	21.056
TUTAL UTHER	4.155	3.345
TOTAL ANNUAL LAB	206.564	209.871
TOTAL INHOUSE	27.201	28.611
TOTAL INHOUSE ROTGE	23.474	25.166
ANNUAL OPERATING COST	8.832	8.870

	PERSONNEL DATA	LEND OF FY	(1979)	
PERSONNEL	AUTHURIZED	TOTAL	TOTAL	NON-
	STRENGTH	PHDS	PROF	PROF
MILITARY	232	7	109	123
CIVILIAN	1091	56	592	499
TUTAL	1323	63	701	622

ACRES	SPACE (THE		D PROPERTY SQUARE FE		COST (MYLL	ION \$)
	LAB	ADMIN	UTHER	TOTAL	REAL PRUP	EQUIP
1517	772.193	87.767	168.762	1028.722	30.35	52.996

...MISSION
CONDUCTS RESEARCH, EXPLORATORY AND ADVANCED DEVELOPMENT, TEST AND SELECTED ACQUISITION PROGRAMS IN SUPPURT OF COMMAND, CONTROL AND INTELLIGENCE —C—CUBED I— ACTIVITIES

...CURRENT IMPORTANT PROGRAMS
FACP AUTOMATION/RADAR INTERNETTING
MULTIMISSION SPACEBORNE RADAR
TACTICAL INTELLIGENCE PROCESSING
COMMUNICATIONS ECCM
EQUIPMENT/SYSTEM TESTABILITY FECHNIQUES

PRINCIPLE TECHNICAL AREAS ARE CUMMUNICATIONS, ELFCTROMAGNETIC GUIDANCE AND CONTROL, SURVEILLANCE OF GROUND AND AEROSPACE OBJECTS, INTELLIGENCE DATA CULLECTION AND HANDLING, INFORMATION SYSTEM TECHNOLOGY, IONOSPHERIC PROPAGATION, SOLID STATE SCIENCES, MICROWAVE PHYSICS AND ELECTRONIC RELIABILITY, MAINTAINABILITY AND COMPATIBILITY, MAJOR IN-HOUSE FACILITIES ARE: RECCONNIASSANCE EXPLOITATION FACILITY, HIGH POWER FACILITY, DIGITAL COMMUNICATIONS EXPERIMENTAL FACILITY, R AND D COMPUTER FACILITY CONSISTING OF TWO HONEYWELL 6180 COMPUTERS, RELIABILITY ANALYSIS CENTER, RADIATION EFFECTS FACILITY, CARTUGRAPHIC TEST FACILITY, ECOM AND SIGNAL PROCESSING LABORATURY, SOLID STATE DEVICE FAILURE ANALYSIS FACILITY EXPERIMENTAL DEVICE FABRICATION FACILITY, AND AN ELECTROMAGNETIC VULNERABILITY FACILITY FOR WEAPONS TESTING.

BROOKS AFB, TX.

INSTALLATION: SCHOOL OF AEROSPACE MEDICINE

CDR. CUL. L. J. ENDERS

DEP. DIR. DR. BILLY E. WELCH

	PRO	GRAM DAT		L YEAR (MI		
PROGRAM			1979	19		
		(A	CTUAL)	(ACT + ES		
TOTAL ROTGE			16.734	17.2	19	
TOTAL PROCUI	REMENT		0.000	0.0	nn	
TUTAL UEM			0.000	0.0	00	
TUTAL OTHER			5.770	6,1	75	
TOTAL ANNUAL	L LAB		22.504	23.3	94	
				_		
TOTAL INHOUS	_		15.823	16.3		
TOTAL INHOUS			10.053	10.1	79	
ANNUAL OPERA	ATING COST		2.000	2.3	45	
	DESCIONNI	I JA PA	LEND OF FY	10701		
PERSONNEL	AUTHORIZED	L DAIA	TOTAL	TOTA	,	NON-
F EKSUMMEL			· · · · · · · · · · · · · · · · · · ·			
14 T M AB . 4	STRENGTH		PHOS	PRO		PROF
MILITARY	393		57	10		284
CIVILIAN	273		36	9		174
TUTAL	666		93	20	8	45 8
		SPACE AN	NU PROPERTY	,		
ACRES	SPACE (THO				COST (MILE	TON & V
ACIVES	LAB		UTHER		REAL PRUP	
74	363.855			495.011		
74	303.022	1.1.4700	220110	# AD *0.7.7	17.58	20.401

...MISSION

CONDUCT EXPLORATORY RESEARCH AND DEVELOPMENT PROGRAMS IN AEROSPACE BIOTECHNOLOGY; INCLUDES LIFE SUPPORT, AEROSP MEDICINE, BIOMEDICAL PROGRAMS AND RADIOBIOLOGY. PROVIDE MEDICAL EVALUATION AND CONSULTATION FOR AIRCREWS TO ASSURE RETENTION OF FLYING STATUS.

...CURRENT IMPORTANT PROGRAMS
CREW READINESS AND CREW PROTECTION TECHNOLOGY FOR ADVANCED SYSTEMS
MEDICAL AND BIOMEDICAL ASPECTS OF AEROSPACE OPERATIONS
HEALTH EVALUATION AND RISK TABULATION (HEART)
RADIOBIULOGY IN AEROSPACE OPERATIONS
MODELING BIOLOGICAL SYSTEMS/HAN-AIMOSPHERE ENVIRONMENT INTERACTION

...FUNCTIONS/EQUIPMENT/CAPABILITIES
RESEARCH IN AEROSP MEDICAL PROBLEMS, LIFE SUPPORT, ENVIRONMENTAL STRESS,
RADIOBIDLOGY, LASER, BIOMETRICS, BIOMEDICAL ENGINEERING, ROTGE ON
MEDICAL EQUIPMENT AND SYSTEMS. WHOLE BUDY COUNTER, HUMAN CENTRIFUGE,
TESTING CELLS, RESEARCH CHAMBERS, TELETHERAPY COBALT 60 RADIATION
SOURCE, RADIOFREQUENCY RADIATION FACILITY, ELECTRON MICROSCOPE SYSTEM,
KEMOTE INTERACTIVE GRAPHIC TERMINAL SYSTEM, THERMAL CHAMBER, CARDIAC
CATH. LAB, AEROSP MED SCIENCE LAB, LASER HAZARD FACILITIES, AEROMEDICAL
LIBRARY, AEROSP MED EVALUATION AND CONSULTATIVE SERVICES, OPTICAL
RESEARCH AUDIOLOGY, VESTIBULAR STUDIES, PSYCHOBIOLOGY, RADIOISOTOPE;
AEROMED STANDARDS, MODELING, BIOMED RESEARCH, MEDICAL REPOSITORIES,
RADIATION SCIENCES RESEARCH, BIODYNAMICS RESEARCH, DEVELOP. ENGINEERING.

DIR.DR. W.L. LEHMANN

COR. CUL.R.T. WHITE

	PROGR∌M (DATA BY FISCA	L YEAR (MILLION	\$)
PRUGRAM		1979	1980	
		(ACTUAL)	(ACT + EST)	
TUTAL RUTEE		178.185	168.522	
TOTAL PROCURE	MENT	0.000	0.000	
TOTAL DEM		0.017	0.017	
TUTAL UTHER		11.661	12.477	
TUTAL ANNUAL	1 AB	189.863	181.016	
TOTAL AMONE		20700.	1014020	
TOTAL INHOUSE	1	64.683	63.468	
TOTAL INHOUSE		52.005	50.974	
ANNUAL UPERAT		12.312	13.174	
All tong of bulk.	2.115 (000)		230217	
	PERSONNEL DATA	A (END OF FY	(1979)	
PERSONNEL	AUTHORIZED	TOTAL	TOTAL	NON-
	STRENGTH	PHDS	PRUF	PROF
MILITARY	647	56	388	259
CIVILIAN	464	49	240	224
TOTAL	1111	105	628	483
				1.5
	SPACE	AND PROPERTY	<i>t</i>	
ACRES	SPACE (THOUSANDS	OF SQUARE FE	ET) CUST	(MILLION S)
		V OT HER		PROP EQUIP
702	553.823 105.57	4 125.118	784.515 7	5.06 69.493

...MISSIUN

RESPONSIBLE FOR EXPLORATORY, ADVANCED, AND ENGINEERING DEVELOPMENT IN NUCLEAR WEAPONS EFFECTS, COMPONENTS, RADIATION HAZARDS, NUCLEAR SURVIVABILITY/VULNERABILITY, HIGH ENERGY LASER SYSTEMS, ADVANCED WEAPON TECHNOLOGY, AND LASER WEAPON TECHNOLOGY.

...CURRENT IMPORTANT PROGRAMS
ADVANCED RADIATION TECHNOLOGY
ADVANCED WEAPON TECHNOLOGY
NUCLEAR SURVIVABILITY/VULNGRABILITY ANALYSIS AND TESTING
NUCLEAR SAFETY ANALYSIS AND DESIGN CRITERIA
NUCLEAR WEAPONS EFFECTS ANALYSIS AND TESTING

-- "FUNCTIONS/EQUIPMENT/CAMABILITIES

NUCLEAR HEAPONS EFFECTS SIMULATION; SAFETY, COMPONENT ASSESSMENT AND ANALYSIS OF PEAPONS SYSTEMS NUCLEAR HARDNESS ARE CONDUCTED IN ENGINEERING TEST LABORATORIES AND PHYSICS LABORATORIES. SIMULATION TESTS ON MISSILES, AIRCRAFT, AND COMPONENTS USE ELECTROMAGNETIC PULSE SIMULATORS, GAS GUNS, AND X-RAY DEVICES. CIVIL ENGINEERING PROGRAMS USE SHOCK TUBES AND HIGH EXPLOSIVES FOR SIMULATION OF NUCLEAR BLAST AND SHOCK. LASER SYSTEMS DEVELOPMENT USES LASER/UPTICS LABORATORIES AND TEST RANGES WITH LARGE, HIGH POWER DEVICES. A TECHNICAL LIBRARY, METALLURGY AND METROLOGY LABORATORIES, 2 CYBER 176 AND I COC-6600 COMPUTERS WITH REMOTE ACCESS TERMINALS AND MULTI-CHANNEL SENSING/RECURDING AND DATA REDUCTION SUPPORT ALL REQUIRING ROTZE PROGRAMS.

CDR.COL.W.M. BURKETT

TECH. DIR.DR J.A. MEANS

	PROGRAM DATA BY FISCAL	YEAR (MILLIGN \$)
PROGRAM	1979	1980
	(ACTUAL)	(ACT + EST)
TUTAL ROTEE	1.900	0.900
TOTAL PROCUREMENT	5.079	6.586
TOTAL UEM	72.860	82.258
TOTAL UTHER	7.261	7.867
TOTAL ANNUAL LAB	87.100	97.611
TOTAL INHOUSE	87.100	97.611
TOTAL INHOUSE ROTGE	1.400	9.900
ANNUAL UPERATING COST	0.296	0.326

	PERSONNEL DATA	(END OF F	Y 1979)	
PERSONNEL	AUTHORIZEO	TOTAL	TUTAL	NON-
	STRENGTH	PHDS	PROF	PROF
MILITARY	356	4	231	125
CIVILIAN	368	0	152	216
TOTAL	724	4	383	341

		SPACE A	ND PROPERT	Y		
ACRES	SPACE (TH	DISANDS O	F SQUARE FI	EET)	COST (MILL	ION \$
	LAB	ADMIN	Ů THER	TOTAL	REAL PROP	EQUIP
55586	36.000	617.000	1199.000	1852.000	260.00	49.900

... MISSIUN

MANAGE FIELD TEST AND LAUNCH OPERATIONS FOR SPACE DIVISION/OTHERS. DEVELOP MANAGE AND OPERATE THE WESTERN TEST RANGE AS A DESIGNATED NATIONAL RANGE.

...CURRENT IMPURTANT PROGRAMS
AUVANCED BALLISTIC REENTRY SY TEMS PROGRAMS.
MINUTEMAN II OPERATIONAL TESTING PROGRAM.
MINUTEMAN III R AND D AND OPERATIONAL TESTING PROGRAM.
CLASSIFIED AND UNCLASSIFIED SPACE PGMS USING TITAN, ATLAS, THOR, AND SCOUT BOMARC MISSILE, TOMAHAWK CRUISE MISSILE, AIR—LAUNCHED CRUISE MISSILE.

...FUNCTIONS/EQUIPMENT/CAPABILITIES

WSMC CAPABILITIES INCLUDE TEST LAUNCH AND RANGE SUPPORT. TEST LAUNCH INCLUDES: ASSEMBLY AND PRELAUNCH TESTING OF LAUNCH VEHICLE SYSTEMS USING ATLAS, FITAN AND MM BOUSTERS; AGENA AND TITAN III UPPER STAGES; PAYLOAD AND VEHICLE INTEGRATION/CHECKOUT; AND LAUNCH CONTROL. WESTERN TEST RANGE SUPPORT INCLUDES NEAR AND FAR TERM RANGE INSTRUMENTATION PLANNING, AND DATA GATHERING UN BALLISTIC/SPACE/GUIDED MISSILE/PROBE LAUNCHES, AIRCRAFT AND OTHER TESTS AT UPKANGE AND DOWNRANGE LOCATIONS. RADAR, TELEMETRY, UPTICAL, DATA PROCESSING, CUMMUNICATIONS AND COMMAND CONTROL SYSTEMS ARE AVAILABLE. LAUNCH AZIMUTHS VARY FRUM 140 TO 313 DEGREES. AERONAUTICAL TESTS ARE CUNDUCTED IN AN INSTRUMENTED OFFSHORE OPERATING AREA. LAUNCH FACILITIES AND RANGE INSTRUMENTATION CAN BE RECONFIGOTED TO MEET PRUGRAM REQUIREMENTS.

CDR.COL.D.T. WARD

TECH-DIR-MR. P.J. CORCORAN

	PROGRAM DATA BY FISCAL	. YEAR (MILLION \$)
PRUGRAM	1979	1980
	(ACTUAL)	(ACT + EST)
TUTAL RUTEE	51.984	56.759
TUTAL PROGUREMENT	0.000	0.000
TOTAL OEM	2.221	2.332
TOTAL UTHER	0.013	0.014
TOTAL ANNUAL LAB	54.218	59.105
TOTAL INHOUSE	43,381	46.686
TOTAL INHOUSE ROTEE	41.147	44.340
ANNUAL OPERATING CUST	0.015	0.015

	PERSUNNEL DATA	(END UF FY	Y 1979)	
PERSUNNEL	AUTHURIZED	TOTAL	TOTAL	NON-
	STRENGTH	PHOS	PRUF	PROF
MILITARY	854	2	169	685
CIVILIAN	1028	O	98	930
TUTAL	1882	2	267	1615

		SPACE AN	U PROPERTI	4		
ACRES	SPACL (THO	JUSANDS DF	SQUARE F	EET)	COST (MIL	LION \$)
	LAB	ADMIN	OTHER	TOTAL	REAL PROP	EQUIP
227	0.000	68.176	961.590	1029-766	15.35	406-133

...MISSION

ODD MAJ TEST FAC. PERFORMS TRE ON MIL SYS, SUBSYS, AND COMP. OPER & MAIN ASGN TEST SUP ACFT AND ANCIL EQUIP. MANAGES A CENTRAL FAC FOR MAJ MUD OF AFSC ACFT. UPER SHOP FAC IN SUP OF CMU ACFT CLASS II MODS AND AFWAL RED PROGMS. PROVIDES FLT TST ENGRG, TECH DATA ACQ, AND TECH PHOTO SYCS.

...CURRENT IMPURTANT PROGRAMS
POSEIDON
ARIA SUPPORT TO AIR LAUNCH CRUISE MISSILE
LASER INFRARED DEMONSTRATOR SYSTEM
AFFTC TANKER SUPPORT
COHERENT EMITTER LOCATION TEST BED

***FUNCTIONS/EQUIPMENT/CAPABILITIES

43 TEST SUPPORT AIRCRAFT (8 ARIA EC-135)

ALL AFSC MAJOR CLASS II AIRCRAFT MODIFICATIONS

MISSILE LAUNCH/REENTRY TRACKING AND DATA RELAY

WORLDWIDE TEST SUPPORT CAPABILITY

1400 SQUARE MILE RESTRICTED TEST AREA IN OHIO

FLIGHT TEST ENGINEERING (AERO-MECHANICAL, AVIONICS, AND ARIA
TEST DATA ACQUISITION/PROCESSING/ANALYSIS

3 OPERATIONAL SUS(FLIGHT CREWS) AND 3 MAINTENANCE SQS

SPECIALIZED SHOP EQUIP METAL/ROOD WORKING, MODELING, & DATA AUTOMATION
TECHNICAL PHOTOGRAPHIC INSTRUMENTATION & PROCESSING
CENTRAL AT SC AT WPAFS PMEL SERVICES

ASD LABORATORY MATERIAL CONTROL ACTIVITY

INSTALLATION: 6585TH TEST GROUP

VACANT

	PROGRAM DATA BY FISCAL	YEAR (MILLION \$)
PROGRAM	1979	1980
	(ACTUAL)	(ACT + EST)
TUTAL ROTEE	16.292	16.026
TOTAL PROCUREMENT	0.000	0.000
TOTAL USH	4.355	4.545
TOTAL DTHER	4.709	5.039
TOTAL ANNUAL LAB	25.356	25.610
TOTAL INHOUSE	14.444	14.164
TOTAL INHOUSE RUTGE	9.735	9.125
ANNUAL UPERATING CUST	0.100	0.120

	PEKSUNNEL DATA	(END OF FI	Y 1979)	
PERSONNEL	AUTHURIZED	TOTAL	TOTAL	NON-
	STRENGTH	PHDS	PRUF	PROF
MILITARY	325	3	74	251
CIVILIAN	286	3	97	189
TUTAL	611	6	171	440

		SPACE AN	D PROPERTY			
ACRES	SPACE (THO	USANDS OF	SQUARE FE	ET)	COST (MILL	IGN \$)
	LAB	ADMIN	UTHER	TOTAL	REAL PROP	EQUIP
6602	386.000	7.000	163.000	556.000	102.66	53.700

,..MISSION

DOD FOLAL POINT FUR FLIGHT, LAB AND SLED T&E OF INERTIAL GUIDANCE SYS &
CUMPONENTS. HIGH SPEED TRACK FUR AFRUDYNAMIC, EJECTION, IMPACT, RAINFIELD, GUIDANCE & BLAST INTERACTION. KADAR CROSS SEC & ANTENNA PATTERNS
UF A/C, SPACECRAFT, RVS. A/C SPT FÜR IN-HOUSE & TRANSIENT REQUIREMENTS.

-..CURRENT IMPORTANT PROGRAMS
RADAR CROSS SECTION MEASUREMENTS OF THE JOINT CRUISE MSL
MX MSL GUIDANCE SYS AND COMPONENTS TESTING
8-52 OFFENSIVE AVIONICS SYSTEM TESTING
ADVANCED GUIDANCE TECHNOLOGY TESTING IN SPT OF ABRES
AIRCRAFT NAVIGATION SYS VERIFICATION, PROJECT 6886

...FUNCTIONS/EQUIPMENT/CAPABILITIES
PRECISION REFERENCE/DATA COLLECTION, ENVIRONMENTAL CHAMBERS
INERTIAL NAV TEST VAN 508788 FT TEST TRACK (2-RATL, 35588 FT, 3-RAIL 15200 FT), 5 BLUCKHUUSES, 2 INSTRMN STATIONS, 9000 FT TRACKSIDE, 2000 FT BALL RAINFIELD. RUCKET SLED / PROPULSION SYSTEM INV. RADAR TAGET SCATTER FACILITY TO MELSURE RADAR CROSSECTION / ANTENNA PTRNS FROM 30 MHZ TO 95 GHZ.
MEASURE MONOSTATIC / BISTATIC AMP, PHASE, DOPPLER, GLINT AND JET ENGINE MODULATION. IR SIGNATURE MEASUREMENT CAPABILITY.

INSTALLATION: ARMED FURGES RADIOBIOLOGY RSCH.INSTITUTE 6

BETHESDA . MD .

CDR.CAPT.PAUL E.TYLER

	PK	DGRAM DAT	A BY FISCA	L YEAR (MI	LLION \$)	
PROGRAM			1979	19	80	
		(A	CTUAL)	(ACT + ES	' የ)	
TOTAL RUTEE			7.578	8.1	20	
TUTAL PROCURE	4ENT		0.000	0.0	00	
TUTAL DEM			0.000	0.0	00	
TOTAL UTHER			1.943	2.2	6 2	
TOTAL ANNUAL	LAB		9.521	10.3	82	
TOTAL INHUUSE			9.521	10.3	82	
TOTAL INHOUSE	KUTEE		7.578	8.1	20	
ANNUAL UPERAT	ING CU ST		1.836	1.9	73	
	PERSONN	EL DATA	LEND UF FY	1979)		
PERSUNNEL	AUTHURIZED)	TOTAL	TUTA	L	NON-
	STRENGIH		PHDS	PRO	F	PROF
MILITARY	88		32	5	8	30
CIVILIAN	128	ı	20	4	2	86
TOTAL	216		52	10	0	116
		SPACE AN	D PROPERTY	•		
ACRES	SPACE (THO	USANUS OF	SQUARE FE	ET)	COST (MILL	ION \$)
	LAÐ	ADMIN	OTHER	TUTAL	REAL PROP	EQUIP
10	42.335	21.049	56.834	120.218	7.91	5.532

***MISSION
THE MISSION OF AFRIL SHALL BE TO
CONDUCT SCIENTIFIC RESEARCH IN THE FIELD OF RADIOBIOLOGY AND IN THE
RELATED MATTERS THAT ARE ESSENTIAL TO THE
MEDICAL SUPPORT OF THE DEPARTMENT OF DEFENSE

...CURRENT IMPORTANT PROGRAMS
DEFINE PHYSIOLOGICAL/PATHULUGICAL RESPONSE IN HUMANS TO RADIATION.
ASSESS EFFECTS OF COMBINED INJURIES, MILITARY FORCES/NONCOMBATANTS.
DATA FOR PREDICTION OF COMBAT INEFFECTIVENESS AND CASUALTY PRODUCTION.
TREATMENT METHODS FOR CASUALTIES FROM RADIATION/COMBINED INJURY.
INSTRUCTION TO ARMED SERVICES ON TREATMENT OF NUCLEAR CASUALTIES.

***FUNCTIONS/EQUIPMENT/CAPABILITIES
FUNTIONS: OPERATE FACILITIES FOR CUNDUCTING RADIOBIDLOGY RESEARCH AND
DISSEMINATING RESULTS: CONDUCT ADVANCED TRAINING: OPERATE FACILITIES FOR
PRODUCTION OF SHURT-LIVED RADIOISOTOPES: AND PERFORM OTHER SUCH RESEARCH
FUNCTIONS AS REQUIRED. MAJOR EQUIPMENT INCLUDES: PULSE AND STEADY STATE
NUCLEAR REACTOR, 2000,000—CURIE CUBALT—60 IMRADIATOR,
ELECTRON LINEAR ACCHLERATOR ASSOCIATED EXPOSURE ROOM COMPLEXES
SUPPORT SERVICES INCLUDE: MEASUREMENT OF RADIATION FIELDS, PROVISION AND
CAKE OF LARGEATORY ANIMALS, EQUIPMENT DESIGN AND FABRICATION ASSISTANCE,
REAL—TIME DATA ACQUISITION SYSTEM, TELEVISION AND FILM DOCUMENTATION OF
EXPERIMENTS, PERSONNEL AND ENVIRONMENTAL MONITORING, EDITORIAL
ASSISTANCE IN REPORT PREPARATION, AND A LARGE TECHNICAL LIBRARY

APPENDIX I

DISESTABLISHMENT, ESTABLISHMENT OR CHANGES IN ORGANIZATION OR MAME*

DEPARTMENT OF THE ARMY

AS OF OR PRIOR TO 1 OCTOBER 19/9

AIRCRAFT DEVELOPMENT TEST ACTIVITY

DISESTABLISHED

Fort Rucker, AL

AVIATION DEVELOPMENT TEST ACTIVITY

Fort Rucker, AL

ESTABLISHED Name change from Aircraft

Development Test Activity

BIOMEDICAL R&D LABORATORY Aberdeen Proving Ground, MD ESTABLISHED

Formerly part of Chemical Systems Laboratory

ELECTRONICS R&D TECHNOLOGY SUPPORT ACTIVITY

Ft Monmouth, NJ

DISCONTINUED

from this publication. Does not meet criteria for RDT&E

funding.

DEPARTMENT OF THE NAVY

MEDICAL RESEARCH UNIT NO. 2

ESTABLISHED

Manila, Philippines

MEDICAL RESEARCH UNIT NO. 2

Taipei, Taiwan

DISESTABLISHED

NAVAL AIR ENGINEERING CENTER

Lakehurst, NJ

DISCONTINUED from this publication. Does not meet criteria for RDT&E

funding.

DEPARTMENT OF THE AIR FORCE

AEROSPACE MEDICAL R&D LABORATORY Wright Patterson AFB, Ohio

ESTABLISHED Name change from 6570 Aerospace Medical R&D Lab

APPENDIX I

DISESTABLISHMENT, ESTABLISHMENT OR CHANGES IN ORGANIZATION OR NAME*

DEPARTMENT OF THE AIR FORCE (contd)

AS OF OR FRION TO 1 OCTOBER 1979

ARMAMENT DEVELOPMENT AND TEST CENTER Eglin AFB, Florida

DISESTABLISHED

ARMAMENT DIVISION Eglin AFB, Florida

ESTABLISHED

Name change from Armament Develment and Test Center

EASTERN SPACE & MISSILE CENTER Patrick AFB, Florida

ESTABLISHED
Changed from Space and Missile
Test Center (Det 1)

ENGINEERING SERVICES CENTER DET 1 Tyndale AFB, Florida

DISESTABLISHED

ENGINEERING SERVICES CENTER/RD Tyndele AFB, Florida

ESTABLISHED
Name change from Engineering
Services Center Det 1;

SPACE AND MISSILE TEST CENTER Vandenburg AFB, CA

DISESTABLISHED

SPACE AND MISSILE TEST CENTER (DET 1) Patrick AFB, Florida

DISESTABLISHED

WESTERN SPACE AND MISSILE CENTER Vandenburg AFB, CA

ESTABLISHED
Name change from Space & Missile
Test Center

6570 AEROSPACE MEDICAL R&D LABORATORY Wright Patterson AFB, Ohio

DISESTABLISHED

^{*} Changes since publication of Department of Defense In-House RDT&E Activities, 30 October 1978.

APPENDIX II

Definitions

- 1. IN-HOUSE RDTE ACTIVITIES—Those organizational entities engaged in performing work in any or all of the categories of research, development, test, and evaluation. The RDTE effort, however, should represent a minimum of 25 percent of the total effort of each entity reporting in order to be considered as an RDTE activity.
- 2. PROFESSIONALS—Full-time government scientific and engineering personnel actively engaged in RDTE activities. In the case of civilians this will include all those holding positions that fall into the following categories under the Civil Service Occupational Groups and Series of Classes, General Schedule:

101	Candal Cadana	660	Pharmacist
101 150	Social Science	662	Optometrist
180	Geography	665	Speech Pathology and Audiology
184	Psychology	668	Podiatrist
190	Sociology General Anthropology	680	Deutal Officer
193	Archeology	690	Industrial Hygiene
401	Biology	695	Food and Drug Officer
403	Microbiology	696	Food and Drug Inspection
405	Pharmacology	701	Veterinary Medical Science
40.7		801	General Engineering
410	Ecology Zoology	803	• • • • • • • • • • • • • • • • • • • •
413	Physiology		Fire Prevention Engineering
414	Entomology	806	Materials Engineering
430	Botany	807	
434	Plant Pathology	808	Architecture
435	Plant Physiology	810	Civil Engineering
436	Plont Quarantine & Pest	819	Sanitary Engineering
730	Control	830	Mechanical Engineering
437	Horticulture	840	Nuclear Engineering
440	Genetics	850	Electrical Engineering
454	Range Conservation	855	
457	Soil Conservation	861	Aeronautics Engineering
460	Forestry	871	Naval Architecture
470	Soil Science	088	Mining Engineering
471	Agronomy	881	Petroleum Production and Natural Gas Engr.
480	General Fish & Wildlife	890	Argiculture Engineering
482	Fishery Biology	892	Ceramic Engineering
486	Wildlife Biology	893	Chemical Engineering
487	Husbandry	894	Welding Engineering
498	Home Economics	895	Industrial Engineering
	General Health	1221	Patent Adviser
	Medical Officer	1223	Patent Classifying
	Medical Technologist		Patent Examining
		1,225	Patent Interference Examining

1226	Design Patent Examining	1370	Cartography
1301	Physical Science	1372	Geodesy
	Administration	1380	Forest Products Technology
1306	Health Physics	1.382	Food Technology
1310	Physics	1384	Textile Technology
1313	Geophysics	1386	Photographic Technology
1315	Hydrology	1510	Actuary
1320	Chemistry	1515	Operations Research
1321	Metallurgy	1520	Mathematics
1330	Astronomy and Space Science	1529	Mathematical Statistician
1340	Meteorology	1530	Statistics
1350	Geology	1540	Cryptography
1360	Nautical Science	1550	Computer Sciences

Military professionals, both officer and enlisted, actively engaged in RDTE activities should be identified with the functions described in the above referenced civilian job series. Lawyers, accountants, chaplains, social workers, and educators should be excluded.

3. TECHNICIANS--Generally nonprofessionals working on an RDTE project or program in support of a professional. In the case of civilians, it will include, but will not necessarily be limited to, those holding positions that fall into the following categories of the Civil Service Occupational Groups and Series of Classes, General Schedule:

181	Psychological Technician	682	Dental Hygiene
404	Biological Laboratory	683	Dental Laboratory Technicians
	Technician	698	Environmental Health Technician
421	Plant Pest Control Technician	699	Medical Aid
455	Range Technician	704	Animal Health Technician
458	Soil Conservation Technician	802	Engineering Technician
462	Forestry Technician	817	Surveying Technician
622	Medical Aid (Sterile Supplies	818	Engineering Drafting
625	Morgue Attendant	856	Electronic Technician
636	Physican Medicine & Reha-	895	Industrial Engineering Technician
	bilitation Therapy Asst	1311	Physical Science Technician
642	Nuclear Medicine Technician	1316	Hydrologic Technician
645	Medical Technician	1341	Meterological Technician
64 6	Pathology Technician	1.371	Cartographic Ald
647	Medical Radiology Technician	1374	Geodetic Technician
649	Medical Machine Technician	1521	Mathematics Technician
650	Medical Technical Asst	1531	Statistical Clerical & Administrative
661	Pharmacy Technician	1541	Cryptanalysis
667	Orthopotist and Prosthetist		
681	Dental Assistant		

Discretion will have to be exercised by each RDT&E activity in determining the number of military technicians. Generally, they should follow the guidelines established in defining civilian technicians and can be identified in DOD 1312.1-E.

- 4. REAL PROPERTY COST--Each reporting activity will be responsible for etermining and reporting the cost of real property. This cost should be tablished in accordance with the guidelines and definitions in DOD astruction 4165.14. This should also include the cost of installed equipment.
- 5. EQUIPMENT COST--Each reporting activity will be responsible for determining and reporting the cost of personal property. This cost should be established in accordance with the guidelines and definitions in DOD Instruction 4165.14. This should also include the cost of installed equipment.
- 6. SPACE--The data to be furnished should include only walled and roofed building space. It should not include such things as parking lots, open storage areas, lean-tos, etc. 'The source of data may be the annual report submitted in compliance with the requirements of DOD Instruction 4105.14.
- 7. IN-HOUSE OBLIGATIONS—Obligations reported under this category are for activities performed, or to be performed, by the organizational entity. Their work is carried on directly by their own personnel. Particular care should be taken to include under in-house performance the cost of supplies and equipment essentially of an off-the-shelf nature that are procured for use in in-house research and development, plus such things as travel, publications, and other types of services in support of in-house functions and M.P.A. Excluded from the in-house total are expenses for planning and administering programs by DOD personnel of contracts and grants for out-of-house work and M.C.A.
- 8. OUT-OF-HOUSE OBLIGATIONS--Obligations reported under this category are for activities performed, or to be performed, by other than the organizational entity. Out-of-house performers may include other departmental or DOD organizational entities, industrial firms, educational institutions, not-for-profit institutions, and private individuals. Included as out-of-house work are all expenses paid the out-of-house performers, as well as the expenses incurred in planning and administering these programs by personnel of the organizational entity. This would also include travel and other supporting services.
- 9. ANNUAL OPERATING COST--This should generally reflect the overhead cost of operating the laboratory or facility. It should include such things as costs of utilities, rents, janitorial services, guard and fire protection, support services such as supply personnel, printing, maintenance of buildings and grounds, etc. It should not include the salaries of direct labor personnel such as scientists, engineers, technicians, draftsmen, machinists, etc.

APPENDIX III

Selected Standard Abbreviations and Acronyms

AAM air-to-air missile	GCA ground-controlled approach
AAW antiair warfare ADPE automatic data-processing	HF high-frequency
equipment	in high riequency
AEDC Arnold Engineering	IFF identification, friend or foe
Development Center AFMDC Air Force Missile	IR - infrared
Development Center	MPT military potential test
AFSC Air Force Systems Command	
AFWET Air Force weapons effectiveness testing	NAF Naval Air Facility NASA National Aeronautics and Space
APG Aberdeen Proving Ground	Administration
ARPA Advanced Research Projects	
Agency ASW antisubmarine warfare	NAVORD Naval Ordnance Systems Command
AUS Army United States	NAVSHIP Naval Ship Systems Command NEMP nuclear electromagnetic propagation
•	220221
BIS Board of Inspection and	PI product improvement
Survey BW biological warfare	POL petroleum oil, lubricants
•	QA quality assurance
CBR chemical, biological	QMDO qualitative materiel development
radiological CE Chief of Engineers, Army	OMR qualitative materiel requirement
CG commanding general	, <u>1</u>
CNO Chief of Naval Operations COMMEL communications	RDT&E Research, development, test and evaluation
electronics	RF radio frequency
	RV reentry vehicle
DA Department of the Army	
DARCOM Department of the Army Materiel and Readiness	SATS short airfield tactical support SDR small development requirement
Command	SI ship installation
DASA Defense Atomic Support	SP self-propelled
Agency	ST service test
DOD Department of Defense	TCD to the second secon
DZ drop zone	T&E test and evaluation
ECM electronic countermeasures	TOTO Tongue-of-the Ocean
ED engineering development	TIDE
EDT engineering development & test	UDT underwater demolition team ULMS Undersea Long-Range Missile
EEG electroencephalogram	System
EKG electrocardigram	USATECOM US Army Test and Evaluation
ELINT electronic intelligence	Command
EMW electromagnetic propagation EMW electromagnetic warfare	UTTAS utility tactical transport aircraft system
EODC Explosive Ordnance	USW undersea warfare
Disposal Center	UV ultraviolet
ET engineering test	
FA field artillery	V/STOL vertical/short takeoff and
FBM fleet ballistic missile	landing

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CIVIL ENGINEERING LABORATORY	0 3 8 5
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